

MOJAVE DESERT
AIR QUALITY MANAGEMENT DISTRICT

Federal Operating Permit Number: 100005

For: CEMEX California Cement LLC

Facility: CEMEX River Plant and Black Mountain
Quarry Plant

Issued Pursuant to MDAQMD Regulation XII
Effective Date: March 17, 2004

This Federal Operating Permit Expires On:
March 17, 2009

Issued By: Charles L. Fryxell
Air Pollution Control Officer

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PART I INTRODUCTORY INFORMATION

A. Facility Identifying Information:

<u>Owner/Company Name:</u>	CEMEX California Cement LLC
<u>Owner Mailing Address:</u>	CEMEX California Cement LLC 16888 North "E" Street Victorville, California 92394-2999
<u>Facility Name:</u>	CEMEX California Cement LLC
<u>Facility Location(s):</u>	River Plant – Victorville Black Mountain Quarry Facility - Apple Valley
<u>MDAQMD Federal Operating Permit Number:</u>	100005
<u>MDAQMD Company Number:</u>	0001
<u>MDAQMD Facility Number:</u>	00005
<u>Responsible Official:</u>	Don Kelly
<u>Title:</u>	Plant Manager
<u>Phone Number:</u>	
<u>Facility "Site" Contacts:</u>	Shannon K. Carnie
<u>Title:</u>	Environmental Specialist
<u>Phone Number:</u>	(760) 381-7649 office (760) 792-2172 cell (760) 962-7057 pager
<u>Facility "Off Site" Contacts:</u>	None Provided
<u>Phone Number:</u>	
<u>Nature of Business:</u>	Manufacturing Clinker for Cement
<u>SIC Code:</u>	3241 Cement Manufacturing
<u>Facility Location:</u>	UTM (km) 3831 N / 491 E

B. DESCRIPTION OF FACILITY:

Federal Operating Permit (FOP number: 00100005) is for CEMEX California Cement LLC - River Plant and the Black Mountain Quarry Plant. CEMEX California Cement LLC - Black Mountain Quarry Facility is a Clinker Producer for Cement Manufacturing. The basic processes of the facility are the calcining of limestone, which is mixed with other raw materials. Calcining takes place in a pre-calciner and the rotary kiln. Ancillary processes are the cooling of the clinker, milling and loading for shipping to the River Plant of Cemex in Victorville, California about 17 miles away. Once at the River Plant, other materials are added to the clinker, additional crushing is effected and the finished cement is packaged and/or dispatched in bulk containers, by rail and truck.

It should be mentioned that the River Plant and the Black Mountain Quarry Plant are considered a single source for Title V Operating Permit status. These plants are connected by, a company-owned haul road and railroad on land owned in fee, and are thus contiguous and owned by the same corporate entity.

For this Operating Permit, the entire facility is called the River & Black Mountain Quarry Facilities and will be referred to as such throughout the entire document. It is noted that the District considers this to be two separate facilities for their permitting actions on the local level.

Subsequent to receiving the Application for a Federal Operating Permit, Cemex through its predecessor company Southdown, Inc. submitted an application for a major expansion for the facility described above. The expansion was evaluated in conjunction with the District's Regulation XIII, New Source Review (NSR). Cemex shut down equipment at both the River and the Black Mountain Quarry Plants. Additionally, a new kiln and ancillary equipment, including control equipment was installed at the latter facility, while older control equipment was shut down and new control equipment added at the River Plant.

As part of the NSR, Cemex agreed to apply to amend the Federal Operating Permit once the new Authorities to Construct were issued, equipment designed and finalized and installed. This has been accomplished. All of these new pieces of equipment are included in this Operating Permit. The NSR equipment and other ancillary equipment have been added. Equipment that has been shut down as a result of the NSR action is not a part of this Operating Permit.

CEMEX - River Plant

Permit #	Permit Status	Permit Type	Permit Desc.
B000004	PTO	Basic	CLINKER AND GYPSUM TRANSFER SYSTEM
B000007	PTO	Basic	CLINKER AND GYPSUM TRANSFER SYSTEM
B000009	PTO	Basic	HANDLING AND STORAGE SYSTEM
B000011	PTO	Basic	CLINKER AND GYPSUM RECLAIM SYSTEM
B000045	PTO	Basic	FINISH MILL (KFM7)
B000047	PTO	Basic	FINISH MILL (KFM8)
B000049	PTO	Basic	FINISH MILL (KE9)
B000051	PTO	Basic	FINISH MILL (KFM10)
B000053	PTO	Basic	FINISH MILL (KFM11)
B000059	PTO	Basic	CEMENT TRANSFER TO STORAGE (DEPT. 60)
B000066	PTO	Basic	SHIPPING - BULK, CEMENT
B001092	PTO	Basic	CLINKER RECEIVING AND STORAGE SYSTEM (1203)
B001093	PTO	Basic	FINISH MILL - (KFM - 12)
B001280	PTO	Basic	CLINKER AND GYPSUM RECLAIM SYSTEM (1204)
B001287	PTO	Basic	R/R RAW MATERIAL RECLAIM SYSTEM (1201)
B001288	PTO	Basic	RECEIVING SYSTEM - RAW MATERIAL
B001480	PTO	Basic	CEMENT WITHDRAWAL SYSTEM - NORTH PACKOUT
B001482	PTO	Basic	CEMENT WITHDRAWAL SYSTEM
B001484	PTO	Basic	PACKAGING SYSTEM
B001486	PTO	Basic	PACKAGING SYSTEM
B001640	PTO	Basic	SHIPPING - BULK CEMENT
B001683	PTO	Basic	CEMENT, BULK LOADOUT
B001784	PTO	Basic	TRANSFER EQUIPMENT
B001788	PTO	Basic	TRANSFER SYSTEM
B001954	PTO	Basic	SHIPPING, BULK CEMENT
B005192	ATC	Basic	FINISH MILL KM1
B007633	PTO	Basic	GYPSUM UNLOADING AND CONVEYING SYSTEM
B007785	PTO	Basic	PLANT CLEANUP HOPPER
C000003	PTO	Air Pollution Control Device	AIR POLLUTION CONTROL EQUIPMENT (JBH 11)
C000005	PTO	Air Pollution Control Device	AIR POLLUTION CONTROL EQUIPMENT (JBH 1)
C000006	PTO	Air Pollution Control Device	BAGHOUSE (JBH 2)
C000046	PTO	Air Pollution Control Device	AIR POLLUTION CONTROL EQUIPMENT (KBH 7)
C000048	PTO	Air Pollution Control Device	AIR POLLUTION CONTROL EQUIPMENT (KBH 8)
C000050	PTO	Air Pollution Control Device	AIR POLLUTION CONTROL EQUIPMENT (KBH 9)
C000052	PTO	Air Pollution Control Device	AIR POLLUTION CONTROL EQUIPMENT (KBH 10)
C000054	PTO	Air Pollution Control Device	AIR POLLUTION CONTROL EQUIPMENT (KBH 13)
C000055	PTO	Air Pollution Control Device	AIR POLLUTION CONTROL EQUIPMENT (KBH 15)
C000056	PTO	Air Pollution Control Device	AIR POLLUTION CONTROL EQUIPMENT (KBH 11)
C000057	PTO	Air Pollution Control Device	AIR POLLUTION CONTROL EQUIPMENT (JBH 14)
C000058	PTO	Air Pollution Control Device	AIR POLLUTION CONTROL EQUIPMENT (JBH 15)
C000060	PTO	Air Pollution Control Device	AIR POLLUTION CONTROL EQUIPMENT (LBH 1)
C000061	PTO	Air Pollution Control Device	AIR POLLUTION CONTROL EQUIPMENT (LBH 2)
C000062	PTO	Air Pollution Control Device	AIR POLLUTION CONTROL EQUIPMENT (LBH 3)
C000063	PTO	Air Pollution Control Device	BAGHOUSE (LBH 4)
C000065	PTO	Air Pollution Control Device	AIR POLLUTION CONTROL EQUIPMENT (LBH 6)
C000068	PTO	Air Pollution Control Device	AIR POLLUTION CONTROL EQUIPMENT (MBH 2)
C000071	PTO	Air Pollution Control Device	AIR POLLUTION CONTROL EQUIPMENT (MBH 5)
C000075	PTO	Air Pollution Control Device	AIR POLLUTION CONTROL EQUIPMENT (MBH 6)
C001276	PTO	Air Pollution Control Device	BAGHOUSE (JBH 5)
C001277	PTO	Air Pollution Control Device	BAGHOUSE (JBH 4)
C001278	PTO	Air Pollution Control Device	AIR POLLUTION CONTROL EQUIPMENT (JBH3)
C001279	PTO	Air Pollution Control Device	BAGHOUSE (KBH 16)
C001281	PTO	Air Pollution Control Device	BAGHOUSE (JBH 6)
C001282	PTO	Air Pollution Control Device	BAGHOUSE (JBH 7)
C001283	PTO	Air Pollution Control Device	BAGHOUSE (JBH 8)

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C001284	PTO	Air Pollution Control Device	BAGHOUSE (JBH 9)
C001285	PTO	Air Pollution Control Device	BAGHOUSE (KBH 17)
C001286	PTO	Air Pollution Control Device	BAGHOUSE (KBH 18)
C001481	PTO	Air Pollution Control Device	BAGHOUSE (NBH 1)
C001483	PTO	Air Pollution Control Device	BAGHOUSE (NBH 2)
C001485	PTO	Air Pollution Control Device	BAGHOUSE (NBH 3)
C001487	PTO	Air Pollution Control Device	BAGHOUSE (NBH 4)
C001569	PTO	Air Pollution Control Device	BAGHOUSE (LBH 9)
C001684	PTO	Air Pollution Control Device	BAGHOUSE (MBH 1)
C001911	PTO	Air Pollution Control Device	BAGHOUSE (JBH 10)
C002011	PTO	Air Pollution Control Device	AIR POLLUTION CONTROL EQUIPMENT (KBH 14)
C002012	PTO	Air Pollution Control Device	AIR POLLUTION OCNTROL EQUIPMENT (KBH 12)
C004854	PTO	Air Pollution Control Device	BAGHOUSE (JBH17)
C004855	PTO	Air Pollution Control Device	BAGHOUSE (JBH18)
C004856	PTO	Air Pollution Control Device	BAGHOUSE (JBH19)
C004857	PTO	Air Pollution Control Device	BAGHOUSE (JBH20)
C004858	PTO	Air Pollution Control Device	BAGHOUSE (JBH21)
C004859	PTO	Air Pollution Control Device	BAGHOUSE (JBH22)
C004860	PTO	Air Pollution Control Device	BAGHOUSE (JBH23)
C004861	PTO	Air Pollution Control Device	BAGHOUSE (JBH24)
C004862	PTO	Air Pollution Control Device	BAGHOUSE (JBH25)
C004863	PTO	Air Pollution Control Device	BAGHOUSE (JBH26)
C004864	PTO	Air Pollution Control Device	BAGHOUSE (MBH4)
C004865	PTO	Air Pollution Control Device	BAGHOUSE (MBH3)
C004867	PTO	Air Pollution Control Device	BAGHOUSE (JBH28)
C004868	PTO	Air Pollution Control Device	BAGHOUSE (JBH29)
C004869	PTO	Air Pollution Control Device	BAGHOUSE (JBH27)
C005193	ATC	Air Pollution Control Device	BAGHOUSE KBH23
C005194	ATC	Air Pollution Control Device	BAGHOUSE KBH20
C005195	ATC	Air Pollution Control Device	BAGHOUSE KBH22
C005196	ATC	Air Pollution Control Device	BAGHOUSE KBH21
C007370	ATC	Air Pollution Control Device	BAGHOUSE- MG3SB1BH1
C007371	ATC	Air Pollution Control Device	BAGHOUSE- MG3LS11BH1
C007372	ATC	Air Pollution Control Device	BAGHOUSE- MG3LS12BH1
C007634	PTO	Air Pollution Control Device	BAGHOUSE (JBH 30)
C007672	PTO	Air Pollution Control Device	BAGHOUSE JBH31
C007783	PTO	Air Pollution Control Device	BAGHOUSE JBH32
C008185	ATC	Air Pollution Control Device	BAGHOUSE (MG3BH10)
C008190	ATC	Air Pollution Control Device	BAGHOUSE (MG3LS13BH1)
C008191	ATC	Air Pollution Control Device	BAGHOUSE (MG3LS14BH1)
C008192	ATC	Air Pollution Control Device	BAGHOUSE (MG3LS15BH1)
C008193	ATC	Air Pollution Control Device	BAGHOUSE (MG3LS16BH1)
C008245	ATC	Air Pollution Control Device	BAGHOUSE (JBH16)
C008246	ATC	Air Pollution Control Device	BAGHOUSE (LBH10)
C008247	ATC	Air Pollution Control Device	BAGHOUSE (LBH8)
C008438	ATC	Air Pollution Control Device	BAGHOUSE (MBH5B)
C008565	ATC	Air Pollution Control Device	BAGHOUSE (LBH11)
C008566	ATC	Air Pollution Control Device	BAGHOUSE (LBH12)
C008660	ATC	Air Pollution Control Device	BAGHOUSE- KBH19, WHICH SERVES FINISH MILL #12 SKS AIR SEPARATOR PROCESS UNDER DISTRICT PERMIT B001093
E004731	PTO	Emergency I C E	IC ENGINE, DIESEL EMERGENCY COMPRESSOR
E004746	PTO	Emergency I C E	EMERGENCY ELECTRICAL GENERATOR
N001452	PTO	Gasoline Service Station - Non-Retail	GASOLINE DISPENSING FACILITY (NON RETAIL)
T002049	ATC	Tanks (or Silos)	SILO - GROUP I LIME AND CEMENT STORAGE
T002050	PTO	Tanks (or Silos)	SILO - GROUP II CEMENT STORAGE
T002051	PTO	Tanks (or Silos)	SILO - GROUP III CEMENT STORAGE
T002052	PTO	Tanks (or Silos)	SILO - GROUP IV CEMENT STORAGE
T002053	PTO	Tanks (or Silos)	SILOS - CLINKER AND GYPSUM STORAGE
T007369	ATC	Tanks (or Silos)	CEMENT STORAGE BIN, SCALES & LOADOUT

CEMEX - Black Mountain Quarry Plant

Permit #	Permit Description		
B000001	ATC	Basic	COAL UNLOADING SYSTEM
B000080	PTO	Basic	CRUSHER - PRIMARY LIMESTONE
B000081	PTO	Basic	CRUSHER - SECONDARY LIMESTONE
B000082	PTO	Basic	LIMESTONE SHIPPING
B000083	ATC	Basic	RAW MATERIAL SYSTEM - NO. 1
B000085	PTO	Basic	CLINKER LOADOUT SYSTEM - RAIL
B001083	PTO	Basic	KILN (Q2) AND CLINKER COOLER SYSTEM
B001084	PTO	Basic	RAW MILL NO. 2 SYSTEM
B001085	PTO	Basic	COAL/COKE TRANSFER EQUIPMENT
B001264	PTO	Basic	COAL UNLOADING SYSTEM
B001289	PTO	Basic	LIMESTONE RECLAIM SYSTEM
B001666	ATC	Basic	LIMESTONE STACKING SYSTEM - STORAGE
B001672	PTO	Basic	CLINKER TRANSFER SYSTEM TO OUTSIDE STORAGE
B001673	PTO	Basic	CLINKER TRANSFER SYSTEM - STORAGE SILO NO. 1
B001674	PTO	Basic	CLINKER TRANSFER SYSTEM - STORAGE SILO NO. 2
B001675	PTO	Basic	CLINKER TRANSFER SYSTEM - STORAGE DOME
B001676	PTO	Basic	CLINKER RECLAIM SYSTEM - OUTSIDE STORAGE
B001677	PTO	Basic	CLINKER RECLAIM SYSTEM - STORAGE DOME
B001678	PTO	Basic	CLINKER RECLAIM SYSTEM - STORAGE SILO NO. 1
B001679	PTO	Basic	CLINKER RECLAIM SYSTEM - STORAGE SILO NO. 2
B002709	PTO	Basic	BULK TRUCK & SUPER SACK LOADOUT FACILITY
B005344	PTO	Basic	COAL STACKER & RECLAIM SYSTEM
B005362	ATC	Basic	KILN (Q3) AND CLINKER COOLER SYSTEM
B007336	ATC	Basic	ROLL PRESS No. 1, RAW MATERIAL GRINDING
B007340	ATC	Basic	KILN Q3 PRE-HEATER FEED SYSTEM
B007364	ATC	Basic	ROLL PRESS No. 2, RAW MATERIAL GRINDING
B007709	PTO	Basic	CLINKER OUTSIDE STORAGE RECLAIM SYSTEM
C000087	PTO	Air Pollution Control Device	AIR POLLUTION CONTROL EQUIPMENT (DBH3)
C000092	PTO	Air Pollution Control Device	AIR POLLUTION CONTROL EQUIPMENT (HBH 6)
C000093	PTO	Air Pollution Control Device	AIR POLLUTION CONTROL EQUIPMENT (HBH 17)
C000095	PTO	Air Pollution Control Device	AIR POLLUTION CONTROL EQUIPMENT (EBH1)
C001090	PTO	Air Pollution Control Device	AIR POLLUTION CONTROL EQUIPMENT (GBH2)
C001091	PTO	Air Pollution Control Device	AIR POLLUTION CONTROL EQUIPMENT (GGF 2)
C001290	PTO	Air Pollution Control Device	AIR POLLUTION CONTROL EQUIPMENT (CBH1)
C001291	PTO	Air Pollution Control Device	AIR POLLUTION CONTROL EQUIPMENT (CBH2)
C001292	PTO	Air Pollution Control Device	AIR POLLUTION CONTROL EQUIPMENT (DBH5)
C001293	PTO	Air Pollution Control Device	AIR POLLUTION CONTROL EQUIPMENT (DBH2)
C001294	PTO	Air Pollution Control Device	AIR POLLUTION CONTROL EQUIPMENT (EBH3)
C001295	PTO	Air Pollution Control Device	AIR POLLUTION CONTROL EQUIPMENT (EBH4)
C001296	PTO	Air Pollution Control Device	AIR POLLUTION CONTROL EQUIPMENT (DBH4)
C001297	PTO	Air Pollution Control Device	AIR POLLUTION CONTROL EQUIPMENT (HBH 1)
C001298	PTO	Air Pollution Control Device	AIR POLLUTION CONTROL EQUIPMENT (HBH 2)
C001299	PTO	Air Pollution Control Device	AIR POLLUTION CONTROL EQUIPMENT (EBH 5)
C001300	PTO	Air Pollution Control Device	AIR POLLUTION CONTROL EQUIPMENT (HBH 19)
C001301	PTO	Air Pollution Control Device	AIR POLLUTION CONTROL EQUIPMENT (HBH 3)
C001302	PTO	Air Pollution Control Device	AIR POLLUTION CONTROL EQUIPMENT (HBH 4)
C001303	PTO	Air Pollution Control Device	AIR POLLUTION CONTROL EQUIPMENT
C001308	PTO	Air Pollution Control Device	AIR POLLUTION CONTROL EQUIPMENT (HBH 18)
C001660	PTO	Air Pollution Control Device	AIR POLLUTION CONTROL EQUIPMENT (HBH 20)
C001667	PTO	Air Pollution Control Device	AIR POLLUTION CONTROL EQUIPMENT (DBH1)
C001668	PTO	Air Pollution Control Device	AIR POLLUTION CONTROL EQUIPMENT (EBH2)
C001669	PTO	Air Pollution Control Device	AIR POLLUTION CONTROL EQUIPMENT (HBH 22)
C001670	PTO	Air Pollution Control Device	AIR POLLUTION CONTROL EQUIPMENT (HBH 21)

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C002081	PTO	Air Pollution Control Device	AIR POLLUTION CONTROL EQUIPMENT
C002082	PTO	Air Pollution Control Device	AIR POLLUTION CONTROL EQUIPMENT
C002710	PTO	Air Pollution Control Device	AIR POLLUTION CONTROL EQUIPMENT (GWDBH)
C003249	PTO	Air Pollution Control Device	BAGHOUSE (QBH1)
C004870	PTO	Air Pollution Control Device	BAGHOUSE (HBH24)
C004871	PTO	Air Pollution Control Device	BAGHOUSE (HBH23)
C005190	PTO	Air Pollution Control Device	K2 G-COOLER DUST COLLECTOR (GGC BH)
C007337	PTO	Air Pollution Control Device	BAGHOUSE, CBH3, at Drop Tube from CBC8 (B001666), RAW MATERIAL TRANSPORT SYSTEM
C007347	PTO	Air Pollution Control Device	BAGHOUSE- HBH25, WHICH SERVES THE KILN Q-3 CLINKER PAN CONVEYOR
C007348	PTO	Air Pollution Control Device	BAGHOUSE- EBH6, WHICH SERVES THE KILN Q-3 PRE-HEATER SYSTEM
C007350	PTO	Air Pollution Control Device	BAGHOUSE- EBH7, CONTROL DEVICE FOR KILN Q-3 PRE-HEATER FEED SYSTEM
C007351	PTO	Air Pollution Control Device	BAGHOUSE- EBH8, WHICH SERVES KILN Q-3 PRE-HEATER FEED SYSTEM
C007353	PTO	Air Pollution Control Device	BAGHOUSE- DBH13, WHICH SERVES RAW MATERIAL TRANSPORT SYSTEM
C007355	PTO	Air Pollution Control Device	BAGHOUSE-DBH14, CONTROLLING EMISSIONS FROM THE RAW MATERIAL TRANSPORT SYSTEM
C007356	PTO	Air Pollution Control Device	BAGHOUSE-DBH15
C007358	ATC	Air Pollution Control Device	BAGHOUSE- (FPFB4DC), WHICH SERVES THE NEW PULVERIZED COAL BIN
C007359	ATC	Air Pollution Control Device	BAGHOUSE-FBH4P1
C007360	ATC	Air Pollution Control Device	BAGHOUSE- DBH 9, WHICH SERVES ROLL PRESS 1(MATERIAL GRINDING)
C007361	ATC	Air Pollution Control Device	BAGHOUSE DBH 7, WHICH SERVES ROLL PRESS No. 1
C007362	ATC	Air Pollution Control Device	BAGHOUSE-DBH 8, WHICH SERVES ROLL PRESS No.1
C007363	ATC	Air Pollution Control Device	BAGHOUSE- DBH 13, WHICH SERVES ROLL PRESS No.1
C007365	ATC	Air Pollution Control Device	BAGHOUSE-DBH 12, WHICH SERVES ROLL PRESS No. 2
C007366	ATC	Air Pollution Control Device	BAGHOUSE-DBH 10, WHICH SERVES ROLL PRESS No.2
C007367	ATC	Air Pollution Control Device	BAGHOUSE-DBH 11, WHICH SERVES ROLL PRESS No. 2
C007368	ATC	Air Pollution Control Device	MAIN BAGHOUSE, (GBH 3) WHICH SERVES KILN (Q3) AND CLINKER COOLER SYSTEM 3Q
C008244	ATC	Air Pollution Control Device	BAGHOUSE (DBH6)
C008253	PTO	Air Pollution Control Device	BAGHOUSE (EBH9)
C008473	ATC	Air Pollution Control Device	BAGHOUSE - EBH10
C008474	ATC	Air Pollution Control Device	BAGHOUSE - EBH11
C008567	ATC	Air Pollution Control Device	BAGHOUSE (GBH3)
E001910	PTO	Emergency I C E	IC ENGINE, EMERGENCY DIESEL GENERATOR
E004732	PTO	Emergency I C E	IC ENGINE AIR COMPRESSOR, EMERGENCY
N002209	PTO	Gasoline Service Station - Non-Retail GASOLINE DISPENSING FACILITY (NON RETAIL)	
T001997	PTO	Tanks (or Silos)	SILO - CLINKER STORAGE (1104)
T001998	PTO	Tanks (or Silos)	SILO - STORAGE
T002210	PTO	Tanks (or Silos)	KILN FUEL
T002211	PTO	Tanks (or Silos)	KILN FUEL
T002212	PTO	Tanks (or Silos)	KILN FUEL
T004582	PTO	Tanks (or Silos)	TANK - WASTE OIL
T007339	ATC	Tanks (or Silos)	RAW MEAL TRANSPORT SYSTEM
T007357	ATC	Tanks (or Silos)	NEW PULVERIZED COAL BIN (FPFB 4)
T008472	ATC	Tanks (or Silos)	SILO-RAW MEAL ES4

PART II
FACILITYWIDE APPLICABLE REQUIREMENTS; EMISSIONS
LIMITATIONS; MONITORING, RECORDKEEPING,
REPORTING AND TESTING REQUIREMENTS; COMPLIANCE
CONDITIONS; COMPLIANCE PLANS

A. REQUIREMENTS APPLICABLE TO ENTIRE FACILITY AND EQUIPMENT:

1. A permit is required to operate this facility.
[Rule 203 - *Permit to Operate*; Version in SIP = CARB Ex. Order G-73, 40 CFR 52.220(c)(39)(ii)(B) - 11/09/78 43 FR 52237; Current Rule Version = 07/25/77]
2. The equipment at this facility shall not be operated contrary to the conditions specified in the District permit to operate.
[Rule 203 - *Permit to Operate*; Version in SIP = CARB Ex. Order G-73, 40 CFR 52.220(c)(39)(ii)(B) - 11/09/78 43 FR 52237; Current Rule Version = 07/25/77]
3. The Air Pollution Control Officer may impose written conditions on any permit.
[Rule 204 - *Permit Conditions*; Version in SIP = CARB Ex. Order G-73, 40 CFR 52.220(c)(39)(ii)(B) - 11/09/78 43 FR 52237; Current Rule Version = 07/25/77]
4. Commencing work or operation under a permit shall be deemed acceptance of all the conditions so specified.
[Rule 204 - *Permit Conditions*; Version in SIP = CARB Ex. Order G-73, 40 CFR 52.220(c)(39)(ii)(B) - 11/09/78 43 FR 52237; Current Rule Version = 07/25/77]
5. Posting of the permit to operate is required on or near the equipment or as otherwise approved by the APCO/District.
[Rule 206 - *Posting of Permit to Operate*; Version in SIP = CARB Ex. Order G-73, 40 CFR 52.220(c)(39)(ii)(B) - 11/09/78 43 FR 52237; Current Rule Version = 07/25/77]
6. Owner/Operator shall not willfully deface, alter, forge or falsify any permit issued under District rules.
[Rule 207 - *Altering or Falsifying of Permit*; Version in SIP = CARB Ex. Order G-73, 40 CFR 52.220(c)(39)(ii)(B) and 52.220(c)(31)(vi)(C) - 11/09/78 43 FR 52237; Current Rule Version = 07/25/77]
7. Permits are not transferable.
[Rule 209 - *Transfer and Voiding of Permit*; Version in SIP = CARB Ex. Order G-73, 40 CFR 52.220(c)(39)(ii)(B) - 11/09/78 43 FR 52237; Current Rule Version = 07/25/77]
8. The equipment at this facility shall not require a District permit or be listed on the Title V permit

if such equipment is listed in Rule 219 and meets the applicable criteria contained in Rule 219 (B). However, any exempted insignificant activities/equipment are still subject to all applicable facility-wide requirements.

[**SIP Pending:** Rule 219 - *Equipment Not Requiring a Written Permit* as Amended 12/21/94; Prior version in SIP = CARB Ex. Order G-73, 40 CFR 52.220(c)(39)(ii)(B) - 11/09/78 43 FR 52237]

9. The Owner/Operator of this facility shall obtain a Federal Operating Permit for operation of this facility.
[Rule 221 - *Federal Operating Permit Requirement*; Version in SIP = Current, 40 CFR 52.220(c)(216)(i)(A)(2) - 02/05/96 61 FR 4217]
10. Owner/Operator shall pay all applicable MDAQMD permit fees.
[Rule 301 - *Permit Fees*; Applicable Version = 10/23/94, Applicable via Title V Program interim approval 02/05/96 61 FR 4217]
11. Owner/Operator shall pay all applicable MDAQMD Title V permit fees.
[Rule 312 - *Fees for Federal Operating Permits*; Applicable Version = 10/23/94, Applicable via Title V Program interim approval 02/05/96 61 FR 4217]
12. Stack and point source visible emissions from this facility, of any air contaminant (including smoke) into the atmosphere, shall not equal or exceed Ringelmann No. 1 for a period or periods aggregating more than three minutes in any one hour:
 - a. While any unit is fired on Public Utilities Commission grade natural gas, Periodic Monitoring for combustion equipment is not required to validate compliance with the Rule 401 Visible Emissions limit. However, the Owner/Operator shall comply with the recordkeeping requirements stipulated elsewhere in this permit regarding the logging of fuel type, amount and suppliers certification information.
 - b. While any unit is fired on diesel fuel, Periodic Monitoring, in addition to required recordkeeping, is required to validate compliance with Rule 401 Visible Emissions limit as indicated below:
 - i. Reciprocating engines equal or greater than 1000 horsepower, firing on only diesel with no restrictions on operation a visible emissions inspection is required every three (3) months.
 - ii. Diesel Standby and emergency reciprocating engines using California low sulfur fuels require no additional monitoring for opacity.
 - iii. Diesel/Distillate-Fueled Boilers firing on California low sulfur fuels require a visible emissions inspection after every 1 million gallons diesel combusted, to be counted cumulatively over a 5-year period.
 - iv. On any of the above, if a visible emissions inspection documents opacity, an EPA Method 9 "Visible Emissions Evaluation" shall be completed within 3 working days, or during the next scheduled operating period if the unit ceases firing on diesel/distillate within the 3 working day time frame.

[Rule 204 - *Permit Conditions*; Version in SIP = CARB Ex. Order G-73, 40 CFR 52.220(c)(39)(ii)(B) - 11/09/78 43 FR 52237; Current Rule Version = 07/25/77]
[Rule 401 - *Visible Emissions*; Version in SIP = CARB Ex. Order G-73, 40 CFR 52.220(c)(39)(ii)(B) - 09/08/78 43 FR 40011; Current Rule Version = 07/25/77]
[40 CFR 70.6 (a)(3)(i)(B) - *Periodic Monitoring Requirements*]

13. Owner/Operator shall not burn any PUC quality natural gas fuel at this facility containing sulfur compounds in excess of 800 ppm calculated as hydrogen sulfide at standard conditions, or any diesel fuel having a sulfur content in excess of 0.5 percent by weight. Compliance with Rule 431 sulfur limit for PUC quality natural gas fuel shall be by the exclusive use of utility grade/pipeline quality natural gas. Records of natural gas supplier fuel quality/sulfur content limit shall be kept on-site for review by District, state or federal personnel at any time. Compliance with Rule 431 sulfur limit for diesel fuel shall be determined by keeping records of the diesel fuel supplier's fuel analysis guarantee showing fuel sulfur content. The sulfur content of diesel fuel shall be determined by use of ASTM method D 2622-82, or (ASTM method D 2880-71, or equivalent).
[40 CFR 70.6 (a)(3)(i)(B) - *Periodic Monitoring Requirements*]
[Rule 431 - *Sulfur Content of Fuels*; Version in SIP = CARB Ex. Order G-73, 40 CFR 52.220(c)(39)(ii)(B) - 09/08/78 - 43 FR 40011; Current Rule Version = 07/25/77]
14. Emissions of fugitive dust from any transport, handling, construction or storage activity at this facility shall not be visible in the atmosphere beyond the property line of the facility.
[Rule 403 - *Fugitive Dust*; Version in SIP = CARB Ex. Order G-73, 40 CFR 52.220(c)(39)(ii)(B) - 09/08/78 43 FR 40011; Current Rule Version = 07/25/77]
15. Owner/Operator shall comply with the applicable requirements of Rule 403.2 unless an "Alternative PM₁₀ Control Plan" (ACP) pursuant to Rule 403.2(G) has been approved. Construction/Demolition activities shall comply with a District approved Dust Control Plan.
[SIP Pending: Rule 403.2 - *Fugitive Dust Control for the Mojave Desert Planning Area* as adopted 7/22/96 and SIP submitted 10/18/96]
16. Owner/Operator shall not discharge into the atmosphere from this facility, particulate matter except liquid sulfur compounds, in excess of the concentration at standard conditions, shown in Rule 404, Table 404 (a).
 - (a) Where the volume discharged is between figures listed in the table, the exact concentration permitted to be discharged shall be determined by linear interpolation.
 - (b) This condition shall not apply to emissions resulting from the combustion of diesel or PUC quality natural gas fuels in steam generators or gas turbines.
 - (c) For the purposes of this condition, emissions shall be averaged over one complete cycle of operation or one hour, whichever is the lesser time period.
[Rule 404 - *Particulate Matter Concentration*; Version in SIP = Current, 40 CFR 52.220(c)(42)(xiii)(A) - 12/21/78 43 FR 52489]
17. Owner/Operator shall not discharge into the atmosphere from this facility, solid particulate matter

including lead and lead compounds in excess of the rate shown in Rule 405, Table 405(a).

- (a) Where the process weight per hour is between figures listed in the table, the exact weight of permitted discharge shall be determined by linear interpolation.
- (b) For the purposes of this condition emissions shall be averaged over one complete cycle of operation or one hour, whichever is the lesser time period.

[Rule 405 - *Solid Particulate Matter, Weight*; Version in SIP = Current, 40 CFR 52.220(c)(42)(xiii)(A) - 12/21/78 43 FR 52489]

- 18. Owner/Operator shall not discharge into the atmosphere from this facility, from any single source of emissions whatsoever, Sulfur compounds, which would exist as a liquid or gas at standard conditions, calculated as sulfur dioxide (SO₂) greater than or equal to 500 ppm by volume.
[40 CFR 70.6 (a)(3)(i)(B) - Periodic Monitoring Requirements]
[Rule 406 - *Specific Contaminants*; Version in SIP = 07/25/77, 40 CFR 52.220(c)(42)(xiii)(A) - 12/21/78 43 FR 52489, Subpart (a) only; Current Rule Version = 02/20/79]
- 19. Owner/Operator shall not discharge into the atmosphere from this facility, carbon monoxide (CO) exceeding 2000 ppm measured on a dry basis, averaged over a minimum of 15 consecutive minutes.
 - (a) The provisions of this condition shall not apply to emissions from internal combustion engines.
[Rule 407 - *Liquid and Gaseous Air Contaminants*; Version in SIP = CARB Ex. Order G-73, 40 CFR 52.220(c)(39)(ii)(C) - 09/08/78 43 FR 40011; Current Rule Version = 07/25/77]
- 20. Owner/Operator shall not build, erect, install or use any equipment at this facility, the use of which, without resulting in a reduction in the total release of air contaminants to the atmosphere, reduces or conceals an emission which would otherwise constitute a violation of Chapter 3 (commencing with Section 41700) of Part 4, of Division 26 of the Health and Safety Code or of District Rules.
 - (a) This condition shall not apply to cases in which the only violation involved is of Section 41700 of the Health and Safety Code, or of District Rule 402.
[Rule 408 - *Circumvention*; Version in SIP = CARB Ex. Order G-73, 40 CFR 52.220(c)(39)(ii)(C) - 09/08/78 43 FR 40011; Current Rule Version = 07/25/77]
- 21. Owner/Operator shall not discharge into the atmosphere from this facility from the burning of fuel, combustion contaminants exceeding 0.23 gram per cubic meter (0.1 grain per cubic foot) of gas calculated to 12 percent of carbon dioxide (CO₂) at standard conditions averaged over a minimum of 25 consecutive minutes.
[Rule 409 - *Combustion Contaminants*; Version in SIP = CARB Ex. Order G-73, 40 CFR 52.220(c)(39)(ii)(C) - 09/08/78 43 FR 40011; Current Rule Version = 07/25/77]
- 22. APCO in his/her discretion, may refrain from enforcement action against an Owner/Operator of any equipment which has violated a technology-based emission limitation, including but not limited to conditions contained in any permit issued by the District establishing such emission limitation, provided that a Breakdown has occurred and:

- (a) Any breakdown which results in emissions exceeding a technology-based emission limitation is reported to the District within one hour of such breakdown or within one hour of the time a person knew or reasonably should have known of the occurrence of such breakdown; and
- (b) An estimate of the repair time is provided to the District as soon as possible after the report of the breakdown; and
- (c) All reasonable steps are immediately taken to minimize the levels of emissions and to correct the condition leading to the excess emissions.
- (d) The equipment is operated only until the end of a cycle or twenty-four (24) hours, whichever is sooner, at which time it shall be shut down for repairs unless a petition for an emergency variance has been filed with the clerk of the Hearing Board in accordance with Regulation V.
- (e) If the breakdown occurs outside normal District working hours the intent to file an emergency variance shall be transmitted to the District in a form and manner prescribed by the Air Pollution Control Officer.

[SIP Pending: Rule 430 - *Breakdown Provisions* as amended 12/21/94 and submitted 02/24/95]

23. Owner/Operator of this facility shall not discharge organic materials into the atmosphere from equipment in which organic solvents or materials containing organic solvents are used, unless such emissions have been reduced by at least 85% or to the following:
- (a) Organic materials that come into contact with flame or are baked, heat cured or heat polymerized, are limited to 1.4 kilograms (3.1 pounds) per hour not to exceed 6.5 kilograms (14.3 pounds) per day.
 - (b) Organic materials emitted into the atmosphere from the use of photochemically reactive solvents are limited to 3.6 kilograms (7.9 pounds) per hour, not to exceed 18 kilograms (39.6 pounds) per day, except as provided in Rule 442, subsection (a)(1). All organic materials emitted for a drying period of 12 hours following their application shall be included in this limit.
 - (c) Organic materials emitted into the atmosphere from the use of non-photochemically reactive solvents are limited to 36.8 kilograms (81 pounds) per hour not to exceed 272 kilograms (600 pounds) per day. All organic materials emitted for a drying period of 12 hours following their application shall be included in this limit.
 - (d) The provisions of this condition shall not apply to the manufacture of organic solvents, or the transport or storage of organic solvents, or the transport or storage of materials containing organic solvents.
 - (e) The provisions of this condition shall not apply to the use of equipment for which other requirements are specified by Rules 461, 462, 463, and 464 or which are exempt from air pollution control requirements by said rules.

[Rule 442 - *Usage of Solvents*; Version in SIP = Current, 40 CFR 52.220(c)(51)(xii)(B) - 06/09/82 47 FR 25013]

24. Owner/Operator of this facility shall comply with the Organic Solvent Degreasing Operations requirements of Rule 1104 when engaged in wipe cleaning, cold solvent cleaning and/or vapor

cleaning (degreasing) operations for metal/non-metal parts/products. These requirements are listed as follows:

- (a) All degreasers shall be equipped with a cover which reduces solvent evaporation and minimizes disturbing the vapor zone.
- (b) A permanent, conspicuous label summarizing the applicable operating requirements contained in Rule 1104. In lieu of a label, operating instructions may be posted near the degreaser where the operators can access the proper operating requirements of this rule.
- (c) Cold Solvent Degreasers - Freeboard Requirements:
 - (i) Cold solvent degreasers using only low volatility solvents which are not agitated, shall operate with a freeboard height of not less than 6 inches.
 - (ii) Cold solvent degreasers using only low volatility solvents may operate with a freeboard ratio equal to or greater than 0.50 when the cold solvent degreaser has a cover which remains closed during the cleaning operation.
 - (iii) Any cold solvent degreasers using solvent which is agitated, or heated above 50°C (120°F) shall operate with a freeboard ratio equal to or greater than 0.75.
 - (iv) A water cover may be used as an acceptable control method to meet the freeboard requirements, when the solvent is insoluble in water and has a specific gravity greater than 1.
- (d) Cold Solvent Degreasers - Cover Requirements:
 - (i) Cold solvent degreasers using high volatility solvent shall have a cover that is a sliding, rolling or guillotine (bi-parting) type which is designed to easily open and close without disturbing the vapor zone.
- (e) Cold Solvent Degreasers - Solvent Level Identification:
 - (ii) A permanent, conspicuous mark locating the maximum allowable solvent level conforming to the applicable freeboard requirements.
- (f) All Degreasers shall comply with the following operating requirements:
 - (i) Any solvent cleaning equipment and any emission control device shall be operated and maintained in strict accord with the recommendations of the manufacturer.
 - (ii) Degreasers shall not be operating with any detectable solvent leaks.
 - (iii) All solvent, including waste solvent and waste solvent residues, shall be stored in closed containers at all times. All containers for any solvent(s) shall have a label indicating the name of the solvent/material they contain.
 - (iv) Waste solvent and any residues shall be disposed of by one of the following methods: a commercial waste solvent reclamation service licensed by the State of California; **or** a federally or state licensed facility to treat, store or dispose of such waste; **or** the originating facility may recycle the waste solvent and materials in conformance with requirements of Section 25143.2 of the California Health and Safety Code.
 - (v) Degreasers shall be covered to prevent fugitive leaks of vapors, except when processing work or to perform maintenance.
 - (vi) Solvent carry-out shall be minimized by the following methods:

- a) Rack workload arranged to promote complete drainage
- b) Limit the vertical speed of the power hoist to 3.3 meters per minute (11 ft/min) or less when such a hoist is used.
- c) Retain the workload inside of the vapor zone until condensation ceases.
- d) Tip out any pools of solvent remaining on the cleaned parts before removing them from the degreaser if the degreasers are operated manually.
- e) Do not remove parts from the degreaser until the parts are visually dry and not dripping/leaking solvent. (This does not apply to an emulsion cleaner workload that is rinsed with water within the degreaser immediately after cleaning.)
- (vii) The cleaning of porous or absorbent materials such as cloth, leather, wood or rope is prohibited.
- (viii) Except for sealed chamber degreasers, all solvent agitation shall be by either pump recirculation, a mixer, or ultrasonics.
- (ix) The solvent spray system shall be used in a manner such that liquid solvent does not splash outside of the container. The solvent spray shall be a continuous stream, not atomized or shower type, unless, the spray is conducted in a totally enclosed space, separated from the environment.
- (x) For those degreasers equipped with a water separator, no solvent shall be visually detectable in the water in the separator.
- (xi) Wipe cleaning materials containing solvent shall be kept in closed containers at all times, except during use.
- (xii) A degreaser shall be located so as to minimize drafts being directed across the cleaning equipment, the exposed solvent surface, or the top surface of the vapor blanket.
- (xiii) A method for draining cleaned material, such as a drying rack suspended above the solvent and within the freeboard area, shall be used so that the drained solvent is returned to the degreaser or container.
- (g) Rule 442 Applicability:
Any solvent using operation or facility which is not subject to the source-specific Rule 1104 shall comply with the provisions of Rule 442. Any solvent using operation or facility which is exempt from all or a portion of the VOC limits, equipment limits or the operational limits of Rule 1104 shall be subject to the applicable provisions of Rule 442.
- (h) Solvent Usage Records:
Owner/Operator subject to Rule 1104 or claiming any exemption under Rule 1104, Section (E), shall comply with the following requirements:
 - (1) Maintain and have available during an inspection, a current list of solvents in use at the facility which provides all of the data necessary to evaluate compliance, including the following information separately for each degreaser, as applicable:
 - (i) product name(s) used in the degreaser, and

- (ii) the mix ratio of solvent compounds mixtures of solvents are used, and
 - (iii) VOC content of solvent or mixture of compounds as used, and
 - (iv) the total volume of the solvent(s) used for the facility, on a monthly basis, and
 - (v) the name and total volume applied of wipe cleaning solvent(s) used, on a monthly basis.
- (2) Additionally, for any degreaser utilizing an add-on emission control device/system as a means of complying with provisions of Rule 1104 shall, on a monthly basis, maintain records of key system operating and maintenance data. Such data is recorded for the purpose of demonstrating continuous compliance during periods of emission producing activities. The data shall be recorded in a manner as prescribed by the District.
- (3) Documentation shall be maintained on site of the disposal or on site recycling of any waste solvent or residues.
- (4) Records shall be retained (at facility) and available for inspection by District, state or federal personnel for the previous 5 year period as required by this Title V / Federal Operating Permit.

[Rule 1104 - Organic Solvent Degreasing Operations; Version in SIP = Current, 40 CFR 52.220(c)(207)(i)(D)(2) - 04/30/96 61 FR 18962, effective 11/30/94]

25. Owner/Operator's use of *Architectural Coatings* at this facility shall comply with the requirements of Rule 1113, including the VOC limits specified in Rule 1113, part C, Table of Standards, as listed below:

<u>Table of Standards</u>	
<u>COATING:</u>	<u>VOC (g/l)</u>
Below Ground Wood Preservatives	600
Bond Breakers	350
Concrete Curing Compounds	350
Dry-Fog Coatings	400
Fire Retardant Coatings	
Clear	650
Pigmented	350
Flat Coatings	250
General Primers, Sealers and Undercoaters	350
Graphic Arts (Sign) Coatings	500
Industrial Maintenance Coatings	
Anti-Graffiti Coatings	600
General Coatings	420
High Temperature Coatings	550
Lacquer	680
Magnesite Cement Coatings	600
Mastic Texture Coatings	300
Metallic-Pigmented Coatings	500

Multi-Color Coatings	580
Opaque Stains	350
Opaque Wood Preservatives	350
Pretreatment (Wash) Primer	780
Quick Dry Enamels	400
Quick Dry Primers, Sealers and Undercoaters	450
Roof Coatings	300
Sanding Sealers	550
Semi-transparent Stains	350
Semi-transparent and Clear Wood Preservatives	350
Shellac	
Clear	730
Pigmented	550
Swimming Pool Coatings	650
Swimming Pool Repair and Maintenance Coatings	650
Traffic Paints	250
For Other Surfaces	250
Black Traffic Coatings	650
Varnish	350
Waterproof Sealers	400

[Rule 1113 - *Architectural Coatings*; Version in SIP = 02/20/79, 40 CFR 52.220(c)(51)(xii)(B)-06/09/82 47 FR 25013; Current Rule Version = 09/02/92]

26. Owner/Operator shall apply coatings to metal parts and products subject to the provisions of Rule 1115 by using equipment properly operated according to manufacturer's suggested guidelines using one or more of the following methods:

- (a) Electrostatic attraction.
- (b) High Volume Low Pressure (HVLP) spray equipment.
- (c) Dip coat.
- (d) Hand Application Methods.

[Rule 1115 - *Metal Parts and Products Coating Operations*; Version in SIP = Current, 40 CFR 52.220(c)(239)(i)(A)(2) - 12/23/97 62 FR 67002, effective 2/23/98]

27. Owner/Operator shall not apply to metal parts and products any coatings, including any VOC-containing materials added to the original coating supplied by the manufacturer, which contain VOC in excess of the limits specified below unless emissions to the atmosphere are controlled to an equivalent level by air pollution abatement equipment with a capture and control system Combined Efficiency of at least 85 percent:

LIMITS

(Grams of VOC Per Liter of Coating, Less Water and Less Exempt Compounds)

<u>Coating</u>	<u>Air Dried</u>	<u>Baked</u>
	g/L (lb/gal)	g/L (lb/gal)

General	420	(3.5)	360	(3.0)
Military Specification	420	(3.5)	360	(3.0)
Etching Filler	420	(3.5)	420	(3.5)
Solar-Absorbent	420	(3.5)	360	(3.0)
Heat-Resistant	420	(3.5)	360	(3.0)
High-Gloss	420	(3.5)	360	(3.0)
Extreme High-Gloss	420	(3.5)	360	(3.0)
Metallic	420	(3.5)	420	(3.5)
Extreme Performance	420	(3.5)	360	(3.0)
Prefabricated Architectural				
Component	420	(3.5)	275	(2.3)
Touch Up	420	(3.5)	360	(3.0)
Repair	420	(3.5)	360	(3.0)
Silicone-Release	420	(3.5)	420	(3.5)
High Performance				
Architectural	420	(3.5)	420	(3.5)
Camouflage	420	(3.5)	420	(3.5)
Vacuum-Metalizing	420	(3.5)	420	(3.5)
Mold-Seal	420	(3.5)	420	(3.5)
High-Temperature	420	(3.5)	420	(3.5)
Electric-Insulating Varnish	420	(3.5)	420	(3.5)
Pan-Backing	420	(3.5)	420	(3.5)
Pretreatment Wash Primer	420	(3.5)	420	(3.5)
Clear Coating	520	(4.3)	520	(4.3)

[Rule 1115 - *Metal Parts and Products Coating Operations*; Version in SIP = Current, 40 CFR 52.220(c)(239)(i)(A)(2) - 12/23/97 62 FR 67002, effective 2/23/98]

28. The provisions of Part II, Condition A.26 shall not apply to the application of touch-up coatings, repair coatings, textured coatings, metallic coatings which have a metallic content of more than 30 grams per liter, mold-seal coatings, and to facilities that use less than three gallons of such coatings per day, as applied, including any VOC-containing materials added to the original coatings as supplied by the manufacturer.

[Rule 1115 - *Metal Parts and Products Coating Operations*; Version in SIP = Current, 40 CFR 52.220(c)(239)(i)(A)(2) - 12/23/97 62 FR 67002, effective 2/23/98]

29. The provisions of Part II, Conditions A.26 and A.27 shall not apply to:
- (a) A facility which uses a total of less than one gallon of coating in any one day, including any VOC-containing materials added to the original coating as supplied by the manufacturer.
 - (b) Total noncompliant coating use per facility that does not exceed 55 gallons per year.
 - (c) Stencil coatings.
 - (d) Safety-indicating coatings.
 - (e) Magnetic data storage disk coatings.

- (f) Solid-film lubricants.
 - (g) Adhesives.
 - (h) The coating of motor vehicle bodies at motor vehicle rework facilities.
[Rule 1115 - *Metal Parts and Products Coating Operations*; Version in SIP = Current, 40 CFR 52.220(c)(239)(i)(A)(2) - 12/23/97 62 FR 67002, effective 2/23/98]
30. Owner/Operator of any facility classified as exempt or claiming to be exempt under Rule 1115, shall meet the record keeping requirements of Rule 1115 so as to be able to certify the exemption status.
[Rule 1115 - *Metal Parts and Products Coating Operations*; Version in SIP = Current, 40 CFR 52.220(c)(239)(i)(A)(2) - 12/23/97 62 FR 67002, effective 2/23/98]
31. Owner/Operator of any coating, coating operation, or facility which is exempt from all or a portion of the VOC limits of Rule 1115 shall comply with the provisions of Rule 442 unless compliance with the limits specified in Rule 1115 are achieved.
[Rule 1115 - *Metal Parts and Products Coating Operations*; Version in SIP = Current, 40 CFR 52.220(c)(239)(i)(A)(2) - 12/23/97 62 FR 67002, effective 2/23/98]
32. Owner/Operator shall comply with the following requirements when using solvent for surface preparation, cleanup, and paint removal, including paint spray equipment:
- (a)
 - (i) VOC-containing materials for surface preparation shall not have a VOC content in excess of 200 grams of VOC per liter of material (1.67 pounds per gallon); or
 - (ii) VOC-containing materials has an initial boiling point of 190 deg C (374 deg F) or greater; or
 - (iii) VOC-containing materials has a total VOC vapor pressure of 20 mm Hg or less, at 20 deg C (68 deg F).
 - (b) Owner/Operator shall use closed, nonabsorbent containers for the storage or disposal of cloth or paper used for solvent surface preparation and cleanup.
 - (c) Owner/Operator shall store fresh or spent solvent in closed containers.
 - (d) Owner/Operator shall not use organic compounds for the cleanup of spray equipment including paint lines unless an enclosed system is used for cleanup. The system shall enclose spray guns, cups, nozzles, bowls, and other parts during washing, rinsing and draining procedures. Equipment used shall minimize the evaporation of organic compounds to the atmosphere.
- [Rule 1115 - *Metal Parts and Products Coating Operations*; Version in SIP = Current, 40 CFR 52.220(c)(239)(i)(A)(2) - 12/23/97 62 FR 67002, effective 2/23/98]
33. Owner/Operator shall not specify the use in the District of any coating to be applied to any metal parts and products subject to the provisions of this Rule 1115 that does not meet the limits and requirements of Rule 1115. This requirement applies to all written or oral contracts.
[Rule 1115 - *Metal Parts and Products Coating Operations*; Version in SIP = Current, 40 CFR 52.220(c)(239)(i)(A)(2) - 12/23/97 62 FR 67002, effective 2/23/98]

34. Owner/Operator subject to Part II, Section A, conditions A.26 through A.39 shall comply with the following requirements:
- (a) Owner/Operator shall maintain and have available during an inspection, a current list of coatings in use which provides all of the coating data necessary to evaluate compliance, including the following information, as applicable:
 - 1. coating, catalyst, and reducer used.
 - 2. mix ratio of components used.
 - 3. VOC content of coating as applied.
 - 4. quantity of Group II exempt compounds used.
 - (b) Owner/Operator shall maintain records on a daily basis including:
 - 1. coating and mix ratio of components used in the coating; and
 - 2. quantity of each coating applied.
 - (c) Owner/Operator shall maintain records on a daily basis showing the type and amount of solvent used for cleanup, surface preparation, and paint removal.
 - (d) Records shall be retained (at facility) and available for inspection by District, state or federal personnel for the previous 5 year period as required by this Title V / Federal Operating Permit.
- [Rule 1115 - *Metal Parts and Products Coating Operations*; Version in SIP = Current, 40 CFR 52.220(c)(239)(i)(A)(2) - 12/23/97 62 FR 67002, effective 2/23/98]
35. Owner/Operator shall obtain, and maintain records from the coating/ paint manufacturer regarding the VOC content of the coating/paint and any solvents contained therein.
[Rule 1115 - *Metal Parts and Products Coating Operations*; Version in SIP = Current, 40 CFR 52.220(c)(239)(i)(A)(2) - 12/23/97 62 FR 67002, effective 2/23/98]
[40 CFR 70.6 (a)(3)(i)(B) - Periodic Monitoring Requirements]
36. The Owner/Operator of any facility electing to engage in the mixing of coatings/ paints or solvents shall be required to obtain and maintain an analysis of the mixture from an independent testing laboratory.
[Rule 1115 - *Metal Parts and Products Coating Operations*; Version in SIP = Current, 40 CFR 52.220(c)(239)(i)(A)(2) - 12/23/97 62 FR 67002, effective 2/23/98]
[40 CFR 70.6 (a)(3)(i)(B) - Periodic Monitoring Requirements]
37. A violation of the limits contained in Part II, Conditions A.26 through A.39 as determined by any one of Part II, Conditions 38 and 39 *Reference Method Tests* shall constitute a violation of applicable Part II conditions.
[Rule 1114 - *Wood Products Coating Operations*; Version in SIP = Current, 40 CFR 52.220(c)(244)(i)(C)(1) - 08/18/98 63 FR 44132]
[Rule 1115 - *Metal Parts and Products Coating Operations*; Version in SIP = Current, 40 CFR 52.220(c)(239)(i)(A)(2) - 12/23/97 62 FR 67002, effective 2/23/98]
38. The following specified *Reference Method Tests* shall be used to determine compliance with the provisions of Part II, Conditions A.26 through A.39, as required by Rule 1114:

- (a) Samples of coatings and solvent as specified in Part II, Conditions A.26 through A.39 shall be analyzed as prescribed by EPA Reference Method 24 for VOC content (without correction for exempt compounds) and ASTM D4457-85, or ARB Method 432 for determination of emissions of exempt compounds. Perfluorocarbon compounds shall be assumed to be absent from a product or process unless a manufacturer or facility Owner/Operator identifies the specific individual compounds (from the broad classes of perfluorocarbon compounds) and the amounts present in the product or process and provides a validated test method which can be used to quantify the specific compounds.
- (b) Emissions of volatile organic compounds as specified in Part II, Conditions A.26 through A.39 shall be measured as prescribed by EPA Reference Method 25 for determination of VOC emissions (without correction for exempt compounds) and EPA Method 18, or ARB Method 422 for measuring emission of exempt compounds.
- (c) Transfer efficiency as required by Part II, Conditions A.26 through A.39 shall be determined by *South Coast Air Quality Management District Spray Equipment Transfer Efficiency Test Procedure for Equipment User, May 24, 1989*.
- (d) Overall abatement efficiency is the product of capture efficiency as determined by procedures described in 55 FR 26865, 29 June, 1990, and abatement device efficiency.

[Rule 1114 - *Wood Products Coating Operations*; Version in SIP = Current, 40 CFR

52.220(c)(244)(i)(C)(1) - 08/18/98 63 FR 44132]

[40 CFR 70.6 (a)(3)(i)(B) - Periodic Monitoring Requirements]

39. The following specified *Reference Method Tests* shall be used to determine compliance with the provisions of Part II, Conditions A.26 through A.39, as required by Rule 1115:

- (a) The VOC content of coatings and solvents, as specified in subsections (C)(2) and (C)(4)(c)(i), shall be analyzed as prescribed by USEPA Reference Method 24 for VOC content (without correction for exempt compounds) and ASTM D4457-85, or CARB Method 432, for determination of emissions of exempt compounds. Perfluorocarbon compounds shall be assumed to be absent from a product or process unless a manufacturer or facility operator identifies the specific individual compounds (from the broad classes of perfluorocarbon compounds) and the amounts present in the product or process and provides a validated test method which can be used to quantify the specific compounds.
- (b) Determination of the initial boiling point of liquid containing VOC, subject to subsection (C)(4)(c)(ii), shall be conducted in accordance with ASTM D1078-86.
- (c) Calculation of total VOC vapor pressure for materials subject to subsection (C)(4)(c)(iii) shall be conducted in accordance with ASTM D2879-86. The fraction of water and exempt compounds in the liquid phase shall be determined by using ASTM D3792-91 and D4457-85 and shall be used to calculate the partial pressure of water and exempt compounds. The results of vapor pressure measurements obtained using ASTM D2879-86 shall be corrected for partial pressure of water and exempt compounds.
- (d) Measurement of solvent losses from alternative application cleaning equipment subject to (C)(4)(b)(iii) shall be conducted in accordance with the South Coast Air Quality Management District's "General Test Method for Determining Solvent Losses from Spray

- Gun Cleaning Systems" (11/1/94).
- (e) Measurement of acid content of a substance shall be determined by ASTM D1613-85.
 - (f) Measurement of metal content of coatings shall be determined in accordance with South Coast Air Quality Management District's "Laboratory Methods of Analysis for Enforcement Samples" manual, "Determination of Percent Metal in Metallic Coatings by Spectrographic Method, Method 311".
 - (g) Capture Efficiency shall be determined according to USEPA's technical document, "Guidelines for Determining Capture Efficiency" (1/9/95).
 - (h) The control efficiency of the Control Device shall be determined according to USEPA Test Methods 25, 25A or 25B for measuring the total gaseous organic concentrations at the inlet and outlet of the emissions Control Device, as contained in 40 CFR Part 60, Appendix A. USEPA Test Method 18 or CARB Method 422 shall be used to determine emissions of exempt compounds.
 - (i) Measurement of solids content by weight of a substance shall be conducted in accordance with ASTM D1475-60.
 - (j) Alternative test methods may be used upon obtaining the approval of the APCO, CARB and USEPA.
 - (k) Demonstration of Transfer Efficiency of alternative application methods subject to subsection (C)(1)(a)(v) shall be conducted in accordance with South Coast Air Quality Management District's "Spray Equipment Transfer Efficiency Test Procedure for Equipment User" (5/24/89).

[Rule 1115 - *Metal Parts and Products Coating Operations*; Version in SIP = Current, 40 CFR 52.220(c)(239)(i)(A)(2) - 12/23/97 62 FR 67002, effective 2/23/98]
[40 CFR 70.6 (a)(3)(i)(B) - Periodic Monitoring Requirements]

40. Owner/Operator shall comply with all requirements of the District's Title V Program, MDAQMD Rules 1200 through 1210 (Regulation XII - *Federal Operating Permits*).
[Applicable via Title V Program interim approval 02/05/96 61 FR 4217]

B. FACILITYWIDE MONITORING, RECORDKEEPING AND REPORTING REQUIREMENTS:

1. Any data and records generated and/or kept pursuant to the requirements in this federal operating permit (Title 5 Permit) shall be kept current and on site for a minimum of five (5) years from the date generated. Any records, data or logs shall be supplied to District, state or federal personnel upon request.
[40 CFR 70.6(a)(3)(ii)(B); Rule 1203(D)(1)(d)(ii)].
2. Any Compliance/Performance testing required by this Federal Operating Permit shall follow the administrative procedures contained in the District's Compliance Test

Procedural Manual. Any required annual Compliance and/or Performance Testing shall be accomplished by obtaining advance written approval from the District pursuant to the District's *Compliance Test Procedural Manual*. All emission determinations shall be made as stipulated in the *Written Test Protocol* accepted by the District. When proposed testing involves the same procedures followed in prior District approved testing, then the previously approved *Written Test Protocol* may be used with District concurrence.

[Rule 204 - *Permit Conditions*; Version in SIP = CARB Ex. Order G-73, 40 CFR 52.220(c)(39)(ii)(B) - 11/09/78 43 FR 52237; Current Rule Version = 07/25/77]

3. Owner/Operator of permit units subject to Comprehensive Emissions Inventory Report / Annual Emissions Determinations for District, State, and Federal required Emission Inventories shall monitor and record the following for each unit:
 - (a) The cumulative annual usage of each fuel type. The cumulative annual usage of each fuel type shall be monitored from utility service meters, purchase or tank fill records.
 - (b) Fuel suppliers' fuel analysis certification/guarantee including fuel sulfur content shall be kept on site and available for inspection by District, state or federal personnel upon request. The sulfur content of diesel fuel shall be determined by use of ASTM method D2622-82, or (ASTM method D 2880-71, or equivalent). Vendor data meeting this requirement is sufficient.
[40 CFR 70.6(a)(3)(B) – *Periodic Monitoring Requirements*]
[Rule 204 - *Permit Conditions*; Version in SIP = CARB Ex. Order G-73, 40 CFR 52.220(c)(39)(ii)(B) - 11/09/78 43 FR 52237; Current Rule Version = 07/25/77]
[Federal Clean Air Act: §110(a)(2)(F, K & J); §112; §172(c)(3); §182(a)(3)(A & B); §187(a)(5); § 301(a)] and in California Clean Air Act, Health and Safety Code §§39607 and §§44300 et seq.]
- 4 (a). Owner/Operator shall submit Compliance Certifications as prescribed by Rule 1203(F)(1) and Rule 1208. Compliance Certifications by a Responsible Official shall certify the truth, accuracy and completeness of the document submitted and contain a statement to the effect that the certification is based upon information and belief, formed after a reasonable inquiry; the statements and information in the document are true, accurate, and complete.
[40 CFR 70.6(c)(5)(i); Rule 1203(D)(1)(g)(vii); Rule 1203(F)(1); Rule 1208]
- (b). Owner/Operator shall include in any Compliance Certification the methods used for monitoring such compliance.
[40 CFR 70.6(c)(5)(ii); Rule 1203(D)(1)(g)(viii)]
- (c). Owner/Operator when submitting any Compliance Certification(s) to the MDAQMD shall contemporaneously submit such Compliance Certification(s) to USEPA.
[40 CFR 70.6(5)(iii); Rule 1203(D)(g)(ix)]

- (d). Owner/Operator shall comply with any additional certification requirements as specified in 42 U.S.C §7414(a)(3), Recordkeeping, Inspections, Monitoring and Entry (Federal Clean Air Act §114(a)(3)) and 42 U.S.C. §7661c(b), Permit Requirements and Conditions (Federal Clean Air Act §503(b)), or in regulations promulgated thereunder. [Rule 1203 (D)(1)(g)(x)]
 - (e). On an annual basis, of any given year, Owner/Operator shall submit a *Compliance Certification Report*, within 30 days of the anniversary of the date of the issuance or renewal of the Federal Operating Permit, to the APCO/District pursuant to District Rule 1203. Each report shall be certified to be true, accurate, and complete by “The Responsible Official” and a copy of this annual report shall also be contemporaneously submitted to the EPA Region IX Administrator.
[40 CFR 72.90.a and Rule 1203 (D)(1)(g)(v - x)]
5. Owner/Operator shall submit, on a semi-annual basis, a *Monitoring Report* to the APCO/District, with a copy to the EPA Region IX Administrator. Each *Monitoring Report* shall be submitted to correspond with the PCAMCT reporting deadlines. This *Monitoring Report* shall be certified to be true, accurate, and complete by “The Responsible Official” and shall include the following information and/or data:
- (a) Summary of deviations from any federally-enforceable requirement in this permit.
 - (b) Summary of all emissions monitoring and analysis methods required by any Applicable Requirement / federally - enforceable requirement.
 - (c) Summary of all periodic monitoring, testing or record keeping (including test methods sufficient to yield reliable data) to determine compliance with any Applicable Requirement / federally - enforceable requirement that does not directly require such monitoring.
 - (d) Summary of necessary requirements concerning use and maintenance of equipment including the installation and maintenance of monitoring equipment.
- [1203(D)(1)(c)(i - iii); 1203(D)(1)(d)(i); Rule 1203(D)(1)(e)(i - ii); Rule 1203(D)(1)(g)(v - x)]
6. Owner/Operator shall promptly report all deviations from federal operating permit requirements including, but not limited to; any emissions in excess of permit conditions, deviations attributable to breakdown conditions, and any other deviations from permit conditions. Such reports shall include the probable cause of the deviation and any corrective action or preventative measures taken as a result of the deviation. [Rule 1203(D)(1)(e)(ii) and Rule 430(C)]
- Prompt reporting shall be determined as follows:
- (a) For deviations involving emissions of air contaminants in excess of permit conditions including but not limited to those caused by a breakdown, prompt reporting shall be within one hour of the occurrence of the excess emission or

within one hour of the time a person knew or reasonably should have known of the excess emission. Documentation and other relevant evidence regarding the excess emission shall be submitted to the District within sixty (60) days of the date the excess emission was reported to the District. [SIP Pending: Rule 430 - Breakdown Provisions as amended 12/21/94 and submitted 2/24/95]

(b) For other deviations from permit conditions not involving excess emissions of air contaminants shall be submitted to the District with any required monitoring reports at least every six (6) months. [Rule 1203(D)(1)(e)(i)]

7. If any facility unit(s) should be determined not to be in compliance with any federally-enforceable requirement during the 5-year permit term, then owner/operator shall obtain a *Schedule of Compliance* approved by the District Hearing Board pursuant to the requirements of MDAQMD Regulation 5 (Rules 501 - 518). In addition, Owner/Operator shall submit a *Progress Report* on the implementation of the *Schedule of Compliance*. The *Schedule of Compliance* shall contain the information outlined in (b), below. The *Progress Report* shall contain the information outlined in (c), below. The *Schedule of Compliance* shall become a part of this Federal Operating Permit by administrative incorporation. The *Progress Report* and *Schedule of Compliance* shall comply with Rule 1201(I)(3)(iii) and shall include:

- (a) A narrative description of how the facility will achieve compliance with such requirements; and
- (b) A *Schedule of Compliance* which contains a list of remedial measures to be taken for the facility to come into compliance with such requirements, an enforceable sequence of actions, with milestones, leading to compliance with such requirements and provisions for the submission of *Progress Reports* at least every six (6) months. The *Schedule of Compliance* shall include any judicial order, administrative order, and/or increments of progress or any other schedule as issued by any appropriate judicial or administrative body or by the District Hearing Board pursuant to the provisions of Health & Safety Code §42350 et seq.; and
- (c) *Progress Reports* submitted under the provisions of a *Schedule of Compliance* shall include: Dates for achieving the activities, milestone, or compliance required in the schedule of compliance; and dates when such activities, milestones or compliance were achieved; and an explanation of why any dates in the schedule of compliance were not or will not be met; and any preventive or corrective measures adopted due to the failure to meet dates in the schedule of compliance. [Rule 1201 (I)(3)(iii); Rule 1203 (D)(1)(e)(ii); Rule 1203 (D)(1)(g)(v)]

8. “CEMEX has determined that the transfer points from the clinker stacker to the clinker pile for outdoor storage and at the emergency pits frequently exceed the 10% opacity limit specified at 40 CFR 60 Subpart F, the 20% opacity limit of MDAQMD Rule 401 and the 40% limit allowed by Health & Safety Code §41701. The facility is currently operating under a Regular Variance granted by the MDAQMD Hearing Board March 13, 2003. CEMEX is developing a corrective action plan and Schedule of Compliance, which will be submitted by September 22, 2003 and presented at the next scheduled Hearing Board meeting for their approval pursuant to the requirements of MDAQMD Regulation 5. The corrective actions will include the submittal of a permit application request for an Authority to Construct. Cemex will also apply for a Conditional Use Permit, if required.”

C. FACILITYWIDE COMPLIANCE CONDITIONS:

1. Owner/Operator shall allow an authorized representative of the MDAQMD to enter upon the permit holder's premises at reasonable times, with or without notice.
[40 CFR 70.6(c)(2)(i); Rule 1203(D)(1)(g)(i)]
2. Owner/Operator shall allow an authorized representative of the MDAQMD to have access to and copy any records that must be kept under condition(s) of this Federal Operating Permit.
[40 CFR 70.6(c)(2)(ii); Rule 1203(D)(1)(g)(ii)]
3. Owner/Operator shall allow an authorized representative of the MDAQMD to inspect any equipment, practice or operation contained in or required under this Federal Operating Permit.
[40 CFR 70.6(c)(2)(iii); Rule 1203(D)(1)(g)(iii)]
4. Owner/Operator shall allow an authorized representative of the MDAQMD to sample and/or otherwise monitor substances or parameters for the purpose of assuring compliance with this Federal Operating Permit or with any Applicable Requirement.
[40 CFR 70.6(c)(2)(iv); Rule 1203(D)(1)(g)(iv)]
5. Owner/Operator shall remain in compliance with all Applicable Requirements / federally enforceable requirements by complying with all compliance, monitoring, record-keeping, reporting, testing, and other operational conditions contained in this Federal Operating Permit. Any noncompliance constitutes a violation of the Federal Clean Air Act and is grounds for enforcement action; the termination, revocation and re-issuance, or modification of this Federal Operating Permit; and/or grounds for denial of a renewal application.

[1203 (D)(1)(f)(ii)]

6. Owner/Operator shall comply in a timely manner with all applicable requirements / federally - enforceable requirements that become effective during the term of this permit.
[Rule 1201 (I)(2); Rule 1203(D)(1)(g)(v)]
7. Owner/Operator shall insure that all applicable subject processes comply with the provisions of 40 CFR 61, *National Emission Standards for Hazardous Air Pollutants*, subpart A, *General Provisions*, and subpart M, *Asbestos*.
[40 CFR 61, subparts A and M]
8. Owner/Operator shall notify APCO/District at least 10 working days before any applicable asbestos stripping or removal work is to be performed as required by section 61.145.b of 40 CFR 61 subpart M, *National Emission Standard for Asbestos*.
[40 CFR 61.145.b]
9. Owner/Operator shall notify the APCO/District, on an **annual** basis, postmarked by December 17 of the calendar year, of the predicted asbestos renovations for the following year as required by section 61.145.b of 40 CFR 61, subpart M [see cite for threshold triggering and applicability].
[40 CFR 61.145.b]

PART III
EQUIPMENT SPECIFIC APPLICABLE REQUIREMENTS; EMISSIONS
LIMITATIONS; MONITORING, RECORDKEEPING,
REPORTING AND TESTING REQUIREMENTS; COMPLIANCE
CONDITIONS; COMPLIANCE PLANS

RIVER PLANT

A. EQUIPMENT DESCRIPTION

GROUP #1 – CLINKER STORAGE & HANDLING

**1. CLINKER AND GYPSUM TRANSFER SYSTEM – MDAQMD PERMIT #
B000004; consisting of:**

25.0 HP Belt Conveyor – JBC 18

PERMIT CONDITIONS; (UNLESS OTHERWISE STATED ALL CONDITIONS
RESULT FROM RULE 204 - PERMIT CONDITIONS; VERSION IN SIP = CARB EX.
ORDER G-73, 40 CFR 52.220(C)(39)(II)(B) - 11/09/78 43 FR 52237; CURRENT RULE
VERSION = 07/25/77:

1. Materials processed shall contain sufficient natural or added moisture to ensure compliance with Rules 401, 402 and 403. Sufficient water and equipment to properly wet the material being processed shall be maintained in operable condition on the site and used as necessary to assure compliance.

**2. R/R RAW MATERIAL RECLAIM SYSTEM (1201) – MDAQMD PERMIT #
B001287; consisting of:**

Controls: C000005 (JBH1) 253 hp; C000006 (JBH2) under permit B001288.

PERMIT CONDITIONS; (UNLESS OTHERWISE STATED ALL CONDITIONS
RESULT FROM RULE 204 - PERMIT CONDITIONS; VERSION IN SIP = CARB EX.
ORDER G-73, 40 CFR 52.220(C)(39)(II)(B) - 11/09/78 43 FR 52237; CURRENT RULE
VERSION = 07/25/77:

1. This equipment shall not be operated unless it is vented to functioning air pollution control equipment covered by valid District permits C000005 and C000006.

3. **AIR POLLUTION CONTROL EQUIPMENT (JBH 1) – MDAQMD PERMIT # C000005; consisting of:**

Serving Raw Material Receiving Conveyors (B001287).

PERMIT CONDITIONS; (UNLESS OTHERWISE STATED ALL CONDITIONS RESULT FROM RULE 204 - PERMIT CONDITIONS; VERSION IN SIP = CARB EX. ORDER G-73, 40 CFR 52.220(C)(39)(II)(B) - 11/09/78 43 FR 52237; CURRENT RULE VERSION = 07/25/77:

1. The owner/operator (o/o) shall operate this control equipment in strict accord with the manufacturer's specification and/or sound engineering principles.
2. The o/o shall maintain a record of repairs and maintenance on this equipment and submit it to the District on request. The record shall be retained for a minimum period of five years.
3. The o/o shall maintain on-site, as a minimum, an inventory of replacement bags that assures compliance with applicable Rules of District Regulation IV.

4. **RECEIVING SYSTEM - RAW MATERIAL – MDAQMD PERMIT # B001288; consisting of:**

Control: C000006 (JBH2), C007672 (JBH - 31)

Belt Conveyor 36" x 576'; 505 FPM @ 1,000 TPH, contained within storage building - JBC4

Belt Conveyor 36" x 491'; 475 FPM @ 1,000 TPH, contained within storage building - JBC5

PERMIT CONDITIONS; (UNLESS OTHERWISE STATED ALL CONDITIONS RESULT FROM RULE 204 - PERMIT CONDITIONS; VERSION IN SIP = CARB EX. ORDER G-73, 40 CFR 52.220(C)(39)(II)(B) - 11/09/78 43 FR 52237; CURRENT RULE VERSION = 07/25/77:

1. This equipment shall not be operated unless it is vented to functioning air pollution control equipment covered by valid District permit C000006 & C007672 (JBH31).

5. **BAGHOUSE (JBH 2) – MDAQMD PERMIT # C000006; consisting of:**

Serves Raw Material Receiving Conveyors (B001288).

Reverse pressure cleaning SWPC type MK V fabric duster collector, two-compartment, with 144 6-1/8" dia x 150" long filament dacron sateen bags with American Standard 15 MH Series 106 exhauster - JBH2

A/C ratio: 1.74:1, 2,880 ft², 5,000 cfm

PERMIT CONDITIONS; (UNLESS OTHERWISE STATED ALL CONDITIONS RESULT FROM RULE 204 - PERMIT CONDITIONS; VERSION IN SIP = CARB EX. ORDER G-73, 40 CFR 52.220(C)(39)(II)(B) - 11/09/78 43 FR 52237; CURRENT RULE VERSION = 07/25/77:

1. The owner/operator (o/o) shall operate this control equipment in strict accord with the manufacturer's specification and/or sound engineering principles.
2. The o/o shall maintain a record of repairs and maintenance on this equipment and submit it to the District on request. The record shall be retained for a minimum period of five years.
3. The o/o shall maintain on-site, as a minimum, an inventory of replacement bags that assures compliance with applicable Rules of District Regulation IV.

6. **BAGHOUSE (JBH 31) – MDAQMD PERMIT # C007672; consisting of:**

Mikropul baghouse, Model No. 815-10-20, with 954 sqft of filter area, drawing 4710 acfm at 9 inches WG, driven by a 15 hp motor at 1800 rpm, filtering the exhaust from the drop point from belt conveyor JBC4 to belt conveyor JBC5 under permit B001288 (Group #1).

PERMIT CONDITIONS; (UNLESS OTHERWISE STATED ALL CONDITIONS RESULT FROM RULE 204 - PERMIT CONDITIONS; VERSION IN SIP = CARB EX. ORDER G-73, 40 CFR 52.220(C)(39)(II)(B) - 11/09/78 43 FR 52237; CURRENT RULE VERSION = 07/25/77:

1. The owner/operator (o/o) shall operate/maintain this equipment in strict accord with recommendations of the manufacturer and/or sound engineering practices.
2. The operating instructions shall be immediately available for use by the operator and

provided to District personnel upon request.

3. This baghouse shall be operated concurrently with conveyor belt JBC4 under permit B001288.
4. The o/o shall have a continuing program of maintenance/inspections in accord with manufacturer's recommendations and specifications which ensures compliance with District Rules. This program shall include, but not be limited to, regular opacity readings, pressure differential measurements, and maintenance inspections. Logging of data shall be required with the log kept on site for a minimum of five (5) years. This log shall be provided to District personnel on request.
5. This equipment does not require a regularly scheduled emission compliance test. However, emission compliance testing may be required at the discretion of the District.

7. **CLINKER RECEIVING AND STORAGE SYSTEM (1203) – MDAQMD PERMIT # B001092; consisting of:**

Control: C001277 (JBH4); C001278 (JBH3).

PERMIT CONDITIONS; (UNLESS OTHERWISE STATED ALL CONDITIONS RESULT FROM RULE 204 - PERMIT CONDITIONS; VERSION IN SIP = CARB EX. ORDER G-73, 40 CFR 52.220(C)(39)(II)(B) - 11/09/78 43 FR 52237; CURRENT RULE VERSION = 07/25/77:

1. This equipment shall not be operated unless it is vented to functioning air pollution control equipment (and either of C001277 or C001278 depending on which silo is being filled).

8. **BAGHOUSE (JBH 4)- MDAQMD PERMIT # C001277; consisting of:**

Serves Clinker Conveyor to Storage (B001092).

Baghouse, Clinker Silo, Flex Kleen model 120 WRTC-64 (III), 979 ft² cloth area, 4,500 cfm, 30 hp - JBH4

PERMIT CONDITIONS; (UNLESS OTHERWISE STATED ALL CONDITIONS RESULT FROM RULE 204 - PERMIT CONDITIONS; VERSION IN SIP = CARB EX. ORDER G-73, 40 CFR 52.220(C)(39)(II)(B) - 11/09/78 43 FR 52237; CURRENT RULE VERSION = 07/25/77:

1. Particulate emissions shall not exceed a discharge grain loading of 0.02 gr/ACF.
2. The owner/operator (o/o) shall operate this control equipment in strict accord with the manufacturer's specification and/or sound engineering principles.
3. The o/o shall maintain a record of repairs and maintenance on this equipment and submit it to the District on request. The record shall be retained for a minimum period of two years.
4. The o/o shall maintain on-site, as a minimum, an inventory of replacement bags that assures compliance with applicable Rules of District Regulation IV.

9. **AIR POLLUTION CONTROL EQUIPMENT (JBH3) – MDAQMD PERMIT # C001278; consisting of:**

Serves Clinker Conveyor to Storage (B001092).

Baghouse, Clinker Silo, Flex Kleen model 120 WRTC-48 (III), 734 ft² cloth area, 4,000 cfm, 25 hp - JBH3

PERMIT CONDITIONS; (UNLESS OTHERWISE STATED ALL CONDITIONS RESULT FROM RULE 204 - PERMIT CONDITIONS; VERSION IN SIP = CARB EX. ORDER G-73, 40 CFR 52.220(C)(39)(II)(B) - 11/09/78 43 FR 52237; CURRENT RULE VERSION = 07/25/77:

1. Particulate emissions shall not exceed a discharge grain loading of 0.02 gr/ACF.
2. The owner/operator (o/o) shall operate this control equipment in strict accord with the manufacturer's specification and/or sound engineering principles.
3. The o/o shall maintain a record of repairs and maintenance on this equipment and submit it to the District on request. The record shall be retained for a minimum period of two years.
4. The o/o shall maintain on-site, as a minimum, an inventory of replacement bags that assures compliance with applicable Rules of District Regulation IV.

10. **SILOS - CLINKER AND GYPSUM STORAGE – MDAQMD PERMIT # T002053; consisting of:**

Control: under B001092: C001277 (JBH4) 30 hp; C001278 (JBH3) 25 hp.
Under B007633: C001276 JBH5) 25 hp; C007634 6 hp.

PERMIT CONDITIONS; (UNLESS OTHERWISE STATED ALL CONDITIONS
RESULT FROM RULE 204 - PERMIT CONDITIONS; VERSION IN SIP = CARB EX.
ORDER G-73, 40 CFR 52.220(C)(39)(II)(B) - 11/09/78 43 FR 52237; CURRENT RULE
VERSION = 07/25/77:

1. These silos shall not be filled unless vented to that functional air pollution control equipment covered by valid District permits:

11. GYPSUM UNLOADING AND CONVEYING SYSTEM – MDAQMD PERMIT # B007633; consisting of:

Conveyor belt J-BC-18 which unloads the two gypsum Truck Unloading Hoppers

Conveyor belt, JBC 19, fed by J-BC-18 and feeds gypsum silo, District permit T002053

PERMIT CONDITIONS; (UNLESS OTHERWISE STATED ALL CONDITIONS
RESULT FROM RULE 204 - PERMIT CONDITIONS; VERSION IN SIP = CARB EX.
ORDER G-73, 40 CFR 52.220(C)(39)(II)(B) - 11/09/78 43 FR 52237; CURRENT RULE
VERSION = 07/25/77:

1. This equipment shall not be operated unless vented to properly functioning baghouses under valid District permits C007634 and C001276.

12. BAGHOUSE (JBH 5) – MDAQMD PERMIT # C001276; consisting of:

Serves Gypsum unloading and conveying system (B007633).

Baghouse, Gypsum Silo, Flex Kleen model 120 WRTC-48(III), 734 ft2 cloth area, 4,000 cfm, 25 hp - JBH5

PERMIT CONDITIONS; (UNLESS OTHERWISE STATED ALL CONDITIONS
RESULT FROM RULE 204 - PERMIT CONDITIONS; VERSION IN SIP = CARB EX.
ORDER G-73, 40 CFR 52.220(C)(39)(II)(B) - 11/09/78 43 FR 52237; CURRENT RULE
VERSION = 07/25/77:

1. Particulate emissions shall not exceed a discharge grain loading of 0.02 gr/ACF.
2. The owner/operator (o/o) shall operate this control equipment in strict accord with the

manufacturer's specification and/or sound engineering principles.

3. The o/o shall maintain a record of repairs and maintenance on this equipment and submit it to the District on request. The record shall be retained for a minimum period of five years.
4. The o/o shall maintain on-site, as a minimum, an inventory of replacement bags that assures compliance with applicable Rules of District Regulation IV.

13. BAGHOUSE (JBH 30) – MDAQMD PERMIT # C007634; consisting of:

A Flex-Kleen model 120BVTS36, Arr. III. This unit has 36 bags, whose lengths are 120 in long. The unit is driven by a 6 hp fan rated to draw 2000 ACFM with an A:C ration of 3.6:1. The total area of the bags is 551 sq ft.

PERMIT CONDITIONS; (UNLESS OTHERWISE STATED ALL CONDITIONS RESULT FROM RULE 204 - PERMIT CONDITIONS; VERSION IN SIP = CARB EX. ORDER G-73, 40 CFR 52.220(C)(39)(II)(B) - 11/09/78 43 FR 52237; CURRENT RULE VERSION = 07/25/77:

1. The owner/operator, (o/o), shall operate/maintain this equipment in strict accord with recommendations of the manufacturer and/or sound engineering practices.
2. The operating instructions shall be immediately available for use by the operator and provided to District personnel upon request.
3. This baghouse shall be operated concurrently with the Truck unloading system-gypsum train under valid District permit B007633.
4. The o/o shall have a continuing program of maintenance/inspections in accord with manufacturer's recommendations and specifications which ensures compliance with District Rules. This program shall include, but not be limited to, regular opacity readings, pressure differential measurements, and maintenance inspections. Logging of data shall be required with the log kept on site for a minimum of five (5) years. This log shall be provided to District personnel on request.
5. This equipment does not require a regularly scheduled emission compliance test. However, emission compliance testing may be required at the discretion of the District.

14. PLANT CLEAN-UP HOPPER – MDAQMD PERMIT # B007785; consisting of:

Hopper for front-end loader and truck unloading of miscellaneous plant materials (system includes an enclosed drop onto JBC1 (B001287)).

6 ton Clean-Up Hopper

Barber-Green Belt Conveyor 36" x 20' (10 tph) (JBC1RB)

PERMIT CONDITIONS; (UNLESS OTHERWISE STATED ALL CONDITIONS RESULT FROM RULE 204 - PERMIT CONDITIONS; VERSION IN SIP = CARB EX. ORDER G-73, 40 CFR 52.220(C)(39)(II)(B) - 11/09/78 43 FR 52237; CURRENT RULE VERSION = 07/25/77:

1. This equipment shall not be operated unless it is vented to functioning air pollution control equipment covered by valid District Permit C007783 (JBH32).

15. BAGHOUSE (JBH 32) – MDAQMD PERMIT # C007783; consisting of:

An Arrestall single cotton cartridge baghouse with 132 sq ft of filter area, a fan of to be determined horsepower generating 1950 acfm through the cartridge (for an air-to-cloth ratio of 14 to 1) and expected emissions of 0.008 grain/cu ft.

This baghouse serves the Plant Cleanup Hopper (B007785). This unit vents the drop from the cleanup hopper belt to JBC1 (B001287).

PERMIT CONDITIONS; (UNLESS OTHERWISE STATED ALL CONDITIONS RESULT FROM RULE 204 - PERMIT CONDITIONS; VERSION IN SIP = CARB EX. ORDER G-73, 40 CFR 52.220(C)(39)(II)(B) - 11/09/78 43 FR 52237; CURRENT RULE VERSION = 07/25/77:

1. This baghouse shall operate concurrently with the equipment described as the Plant Clean-up Hopper (B007785) at the pickup point mentioned above.
2. The o/o shall maintain, on-site, an inventory of replacement bags sufficient to ensure compliance with applicable rules of District Regulation IV.
3. Regular emissions testing for demonstration of compliance with District rules 404 and 405 are not required. The District may require emissions testing at its discretion.
4. The o/o shall operate and maintain this baghouse in strict accord with the recommendations of the manufacturer/supplier.

GROUP #2 CLINKER GYPSUM RECLAIM and STORAGE SYSTEM

16. CLINKER AND GYPSUM RECLAIM SYSTEM (1204) – MDAQMD PERMIT # B001280; consisting of:

Control: C001281 (JBH6); C001282 (JBH7); C001283 (JBH8); C001284 (JBH9) under B001788.

Bin Vibrator - JTS2VB2

Conveyor Vibratory - JVF3, 4, 5

Conveyor Belt - JBC9

Conveyor Belt - JBC10

Conveyor Belt - JBC11

Conveyor Belt - JBC12

PERMIT CONDITIONS; (UNLESS OTHERWISE STATED ALL CONDITIONS RESULT FROM RULE 204 - PERMIT CONDITIONS; VERSION IN SIP = CARB EX. ORDER G-73, 40 CFR 52.220(C)(39)(II)(B) - 11/09/78 43 FR 52237; CURRENT RULE VERSION = 07/25/77:

1. This equipment shall not be operated unless it is vented to the functioning air pollution control equipment covered by all three valid District permits C001281, C001282, and C001283. If flow is directed to system B000053, and to include an additional control (C001284), the flow is diverted to system B001788.

17. BAGHOUSE (JBH 6) – MDAQMD PERMIT # C001281; consisting of:

Serves Clinker and Gypsum Reclaim System (B001280).

Baghouse, FM-12, Flex Kleen model 120 WRTC-80 (III), 1,224 ft2 cloth area, 6,000 cfm, 30 hp - JBH6

PERMIT CONDITIONS; (UNLESS OTHERWISE STATED ALL CONDITIONS RESULT FROM RULE 204 - PERMIT CONDITIONS; VERSION IN SIP = CARB EX. ORDER G-73, 40 CFR 52.220(C)(39)(II)(B) - 11/09/78 43 FR 52237; CURRENT RULE VERSION = 07/25/77:

1. Particulate emissions shall not exceed a discharge grain loading of 0.02 gr/ACF.
2. The owner/operator (o/o) shall operate this control equipment in strict accord with the

manufacturer's specification and/or sound engineering principles.

3. The o/o shall maintain a record of repairs and maintenance on this equipment and submit it to the District on request. The record shall be retained for a minimum period of five years.
4. The o/o shall maintain on-site, as a minimum, an inventory of replacement bags that assures compliance with applicable Rules of District Regulation IV.

18. BAGHOUSE (JBH 7) – MDAQMD PERMIT # C001282; consisting of:

Serves Clinker Conveyor to Storage (B001280).

Baghouse, Clinker and Gypsum Reclaim, Flex Kleen model 120 WRTC-48 (III), 734 ft² cloth area, 3,500 cfm, 25 hp - JBH7

PERMIT CONDITIONS; (UNLESS OTHERWISE STATED ALL CONDITIONS RESULT FROM RULE 204 - PERMIT CONDITIONS; VERSION IN SIP = CARB EX. ORDER G-73, 40 CFR 52.220(C)(39)(II)(B) - 11/09/78 43 FR 52237; CURRENT RULE VERSION = 07/25/77:

1. Particulate emissions shall not exceed a discharge grain loading of 0.02 gr/ACF.
2. The owner/operator (o/o) shall operate this control equipment in strict accord with the manufacturer's specification and/or sound engineering principles.
3. The o/o shall maintain a record of repairs and maintenance on this equipment and submit it to the District on request. The record shall be retained for a minimum period of five years.
4. The o/o shall maintain on-site, as a minimum, an inventory of replacement bags that assures compliance with applicable Rules of District Regulation IV.

19. BAGHOUSE (JBH 8) – MDAQMD PERMIT # C001283; consisting of:

Serves Clinker Conveyor to Storage (B001280).

Baghouse, Clinker and Gypsum Reclaim, Flex Kleen model 120 WRTC-48 (III), 734 ft² cloth area, 3,500 cfm, 25 hp - JBH8

PERMIT CONDITIONS; (UNLESS OTHERWISE STATED ALL CONDITIONS

RESULT FROM RULE 204 - PERMIT CONDITIONS; VERSION IN SIP = CARB EX. ORDER G-73, 40 CFR 52.220(C)(39)(II)(B) - 11/09/78 43 FR 52237; CURRENT RULE VERSION = 07/25/77:

1. Particulate emissions shall not exceed a discharge grain loading of 0.02 gr/ACF.
2. The owner/operator (o/o) shall operate this control equipment in strict accord with the manufacturer's specification and/or sound engineering principles.
3. The o/o shall maintain a record of repairs and maintenance on this equipment and submit it to the District on request. The record shall be retained for a minimum period of five years.
4. The o/o shall maintain on-site, as a minimum, an inventory of replacement bags that assures compliance with applicable Rules of District Regulation IV.

20. CLINKER AND GYPSUM RECLAIM SYSTEM – MDAQMD PERMIT #

B000011; consisting of:

Control: C000003 (JBH11)

PERMIT CONDITIONS; (UNLESS OTHERWISE STATED ALL CONDITIONS RESULT FROM RULE 204 - PERMIT CONDITIONS; VERSION IN SIP = CARB EX. ORDER G-73, 40 CFR 52.220(C)(39)(II)(B) - 11/09/78 43 FR 52237; CURRENT RULE VERSION = 07/25/77:

1. This equipment shall not be operated unless it is vented to functioning air pollution control equipment (C000003).

21. AIR POLLUTION CONTROL EQUIPMENT (JBH 11) – MDAQMD PERMIT #
C000003; consisting of:

Serving Clinker & Gypsum Reclaim Conveyors (B000011). Baghouse, SWPC Mk V with 200 bags 6 1/8" dia x 149' 1, 5,650 ft², 11,300 cfm, and A/C ratio 2:1. 25 hp - JBH11

PERMIT CONDITIONS; (UNLESS OTHERWISE STATED ALL CONDITIONS RESULT FROM RULE 204 - PERMIT CONDITIONS; VERSION IN SIP = CARB EX. ORDER G-73, 40 CFR 52.220(C)(39)(II)(B) - 11/09/78 43 FR 52237; CURRENT RULE VERSION = 07/25/77:

1. The owner/operator (o/o) shall operate this control equipment in strict accord with the manufacturer's specification and/or sound engineering principles.
2. The o/o shall maintain a record of repairs and maintenance on this equipment and submit it to the District on request. The record shall be retained for a minimum period of five years.
3. The o/o shall maintain on-site, as a minimum, an inventory of replacement bags that assures compliance with applicable Rules of District Regulation IV.

22. CLINKER AND GYPSUM TRANSFER SYSTEM – MDAQMD PERMIT # B000007; consisting of:

Control: C004867 (JBH28); C004868 (JBH29); C004869 (JBH27); C000056 (KBH11) under B000053 and C001911 (JBH 10) under B001788.

Belt Conveyors (50, 15, 7.5 hp, 15hp) - JBC6, 7, 8, 13

Elevator - JE2

PERMIT CONDITIONS; (UNLESS OTHERWISE STATED ALL CONDITIONS RESULT FROM RULE 204 - PERMIT CONDITIONS; VERSION IN SIP = CARB EX. ORDER G-73, 40 CFR 52.220(C)(39)(II)(B) - 11/09/78 43 FR 52237; CURRENT RULE VERSION = 07/25/77:

1. This equipment shall not be operated without the baghouses with valid District permits (C000056, C004867, C004868 and C004869) in proper operation.

23. BAGHOUSE (JBH28) – MDAQMD PERMIT # C004867; consisting of:

Serving a transfer point on the conveyors which come from the clinker railroad unloading station with the following specifications:

Mfg. by Flex-Kleen

Model No.: 120-WSTS-36 Arr III

Exhaust Fan: 10 hp & 3,000 cfm

A/C: 5.4:1 & 551 ft²

PERMIT CONDITIONS; (UNLESS OTHERWISE STATED ALL CONDITIONS RESULT FROM RULE 204 - PERMIT CONDITIONS; VERSION IN SIP = CARB EX. ORDER G-73, 40 CFR 52.220(C)(39)(II)(B) - 11/09/78 43 FR 52237; CURRENT RULE VERSION = 07/25/77:

1. The owner/operator (o/o) shall operate/maintain this equipment in strict accord with recommendations of the manufacturer and/or sound engineering practices.
 2. The operating instructions shall be immediately available for use by the operator and provided to District personnel upon request.
 3. This equipment shall be operated concurrently with the conveyors which come from the clinker railroad unloading station covered in District permit B000007 and B000009.
 4. The o/o shall have a continuing program of maintenance/inspections in accord with manufacturer's recommendations and specifications which ensures compliance with District Rules. This program shall include, but not be limited to, regular opacity readings, pressure differential measurements, and maintenance inspections. Logging of these data shall be required with the log kept on-site for a minimum of five years. This log shall be provided to District personnel on request.
24. **BAGHOUSE (JBH29) – MDAQMD PERMIT # C004868; consisting of:**
Serving a transfer point on the conveyors which come from the clinker railroad unloading station with the following specifications:
Mfg. by Flex-Kleen
Model No.: 120-WSTS-36 Arr III
Exhaust Fan: 10 hp & 3,000 cfm
A/C: 5.4:1 & 551 ft²

PERMIT CONDITIONS; (UNLESS OTHERWISE STATED ALL CONDITIONS RESULT FROM RULE 204 - PERMIT CONDITIONS; VERSION IN SIP = CARB EX. ORDER G-73, 40 CFR 52.220(C)(39)(II)(B) - 11/09/78 43 FR 52237; CURRENT RULE VERSION = 07/25/77:

1. The owner/operator (o/o) shall operate/maintain this equipment in strict accord with recommendations of the manufacturer and/or sound engineering practices.
2. The operating instructions shall be immediately available for use by the operator and provided to District personnel upon request.
3. This equipment shall be operated concurrently with the conveyors which come from the clinker railroad unloading station covered in District permit B000007 and B000009.

4. The o/o shall have a continuing program of maintenance/inspections in accord with manufacturer's recommendations and specifications which ensures compliance with District Rules. This program shall include, but not be limited to, regular opacity readings, pressure differential measurements, and maintenance inspections. Logging of these data shall be required with the log kept on-site for a minimum of five years. This log shall be provided to District personnel on request.

25. BAGHOUSE (JBH27) – MDAQMD PERMIT # C004869; consisting of:

Serving a transfer point on the conveyors which come from the clinker and gypsum transfer system with the following specifications:

Mfg. by Flex-Kleen

Model No.: 120-WSTS-49 Arr III

Exhaust Fan: 15 hp & 4,000 cfm

A/C: 5.3:1 & 750 ft²

PERMIT CONDITIONS; (UNLESS OTHERWISE STATED ALL CONDITIONS RESULT FROM RULE 204 - PERMIT CONDITIONS; VERSION IN SIP = CARB EX. ORDER G-73, 40 CFR 52.220(C)(39)(II)(B) - 11/09/78 43 FR 52237; CURRENT RULE VERSION = 07/25/77:

1. The owner/operator (o/o) shall operate/maintain this equipment in strict accord with recommendations of the manufacturer and/or sound engineering practices.
2. The operating instructions shall be immediately available for use by the operator and provided to District personnel upon request.
3. This equipment shall be operated concurrently with the conveyors which come from the clinker railroad unloading station covered in District permit B000007 and B000009.
4. The o/o shall have a continuing program of maintenance/inspections in accord with manufacturer's recommendations and specifications which ensures compliance with District Rules. This program shall include, but not be limited to, regular opacity readings, pressure differential measurements, and maintenance inspections. Logging of these data shall be required with the log kept on-site for a minimum of five years. This log shall be provided to District personnel on request.

26. HANDLING AND STORAGE SYSTEM – MDAQMD PERMIT # B000009; consisting of:

For Clinker Product serving Finish Mills 7, 8, 9, and 10. Controls: C008245 (JBH16); C004854 (JBH17); C004855 (JBH18); C004856 (JBH19); C004857 (JBH20); C004858 (JBH21); C004859 (JBH22); C004860 (JBH23); C004861 (JBH24); C004862 (JBH25); C004863 (JBH26); C004869 (JBH27); C004867 (JBH28); C004868 (JBH29);
Belt Conveyor - JBC7
Screw Conveyor - JBH12SC

PERMIT CONDITIONS; (UNLESS OTHERWISE STATED ALL CONDITIONS RESULT FROM RULE 204 - PERMIT CONDITIONS; VERSION IN SIP = CARB EX. ORDER G-73, 40 CFR 52.220(C)(39)(II)(B) - 11/09/78 43 FR 52237; CURRENT RULE VERSION = 07/25/77:

1. This equipment shall not be operated unless all of the control equipment mentioned above are functioning and operating.

27. BAGHOUSE (JBH 17) – MDAQMD PERMIT # C004854; consisting of:

Serving a transfer point in the Handling and Storage System for Clinker Product serving Finish Mills 7, 8, 9 and 10 (B000009), with the following specifications:

Mfg. By DCE, Inc.

Model No.: C24H Pulse

Exhaust Fan: 3 hp & 1500 cfm

A/C: 5.8:1 & 258 ft²

PERMIT CONDITIONS; (UNLESS OTHERWISE STATED ALL CONDITIONS RESULT FROM RULE 204 - PERMIT CONDITIONS; VERSION IN SIP = CARB EX. ORDER G-73, 40 CFR 52.220(C)(39)(II)(B) - 11/09/78 43 FR 52237; CURRENT RULE VERSION = 07/25/77:

1. The owner/operator (o/o) shall operate/maintain this equipment in strict accord with recommendations of the manufacturer and/or sound engineering practices.
2. The operating instructions shall be immediately available for use by the operator and provided to District personnel upon request.
3. This equipment shall be operated concurrently with the Handling and Storage System serving Finish Mills 7,8,9, and 10 covered in District permit B000009.
4. The o/o shall have a continuing program of maintenance/inspections in accord with manufacturer's recommendations and specifications which ensures compliance with

District Rules. This program shall include, but not be limited to, regular opacity readings, pressure differential measurements, and maintenance inspections. Logging of these data shall be required with the log kept on-site for a minimum of five years. This log shall be provided to District personnel on request.

28. BAGHOUSE (JBH 18) – MDAQMD PERMIT # C004855; consisting of:

Serving a transfer point in the Handling and Storage System for Clinker Product serving Finish Mills 7, 8, 9 and 10 (B000009) with the following specifications:

Mfg. By DCE, Inc.

Model No.: C24H Pulse

Exhaust Fan: 3 hp & 1500 cfm

A/C: 5.8:1 & 258 ft²

PERMIT CONDITIONS; (UNLESS OTHERWISE STATED ALL CONDITIONS RESULT FROM RULE 204 - PERMIT CONDITIONS; VERSION IN SIP = CARB EX. ORDER G-73, 40 CFR 52.220(C)(39)(II)(B) - 11/09/78 43 FR 52237; CURRENT RULE VERSION = 07/25/77:

1. The owner/operator (o/o) shall operate/maintain this equipment in strict accord with recommendations of the manufacturer and/or sound engineering practices.
2. The operating instructions shall be immediately available for use by the operator and provided to District personnel upon request.
3. This equipment shall be operated concurrently with the Handling and Storage System serving Finish Mills 7, 8, 9, and 10 covered in District permit B000009.
4. The o/o shall have a continuing program of maintenance/inspections in accord with manufacturer's recommendations and specifications which ensures compliance with District Rules. This program shall include, but not be limited to, regular opacity readings, pressure differential measurements, and maintenance inspections. Logging of these data shall be required with the log kept on-site for a minimum of five years. This log shall be provided to District personnel on request.

29. BAGHOUSE (JBH 19) – MDAQMD PERMIT # C004856; consisting of:

Serving a transfer point in the Handling and Storage System for Clinker Product serving Finish Mills 7, 8, 9, and 10 (B000009) with the following specifications:

Mfg. by DCE, Inc.

Model No.: C24H Pulse
Exhaust Fan: 3 hp & 1500 cfm
A/C: 5.8:1 & 258 ft²

PERMIT CONDITIONS; (UNLESS OTHERWISE STATED ALL CONDITIONS RESULT FROM RULE 204 - PERMIT CONDITIONS; VERSION IN SIP = CARB EX. ORDER G-73, 40 CFR 52.220(C)(39)(II)(B) - 11/09/78 43 FR 52237; CURRENT RULE VERSION = 07/25/77:

1. The owner/operator (o/o) shall operate/maintain this equipment in strict accord with recommendations of the manufacturer and/or sound engineering practices.
2. The operating instructions shall be immediately available for use by the operator and provided to District personnel upon request.
3. This equipment shall be operated concurrently with the Handling and Storage System serving Finish Mills 7, 8, 9, and 10 covered in District permit B000009.
4. The o/o shall have a continuing program of maintenance/inspections in accord with manufacturer's recommendations and specifications which ensures compliance with District Rules. This program shall include, but not be limited to, regular opacity readings, pressure differential measurements, and maintenance inspections. Logging of these data shall be required with the log kept on-site for a minimum of five years. This log shall be provided to District personnel on request.

30. BAGHOUSE (JBH 20) – MDAQMD PERMIT # C004857; consisting of:

Serving a transfer point in the Handling and Storage System for Clinker Product serving Finish Mills 7, 8, 9, and 10 (B000009) with the following specifications:

Mfg by DCE, Inc.

Model No.: C24H Pulse

Exhaust Fan: 3 hp & 1500 cfm

A/C: 5.8:1 & 258 ft²

PERMIT CONDITIONS; (UNLESS OTHERWISE STATED ALL CONDITIONS RESULT FROM RULE 204 - PERMIT CONDITIONS; VERSION IN SIP = CARB EX. ORDER G-73, 40 CFR 52.220(C)(39)(II)(B) - 11/09/78 43 FR 52237; CURRENT RULE VERSION = 07/25/77:

1. The owner/operator (o/o) shall operate/maintain this equipment in strict accord with

recommendations of the manufacturer and/or sound engineering practices.

2. The operating instructions shall be immediately available for use by the operator and provided to District personnel upon request.
3. This equipment shall be operated concurrently with the Handling and Storage System serving Finish Mills 7, 8, 9, and 10 covered in District permit B000009.
4. The o/o shall have a continuing program of maintenance/inspections in accord with manufacturer's recommendations and specifications which ensures compliance with District Rules. This program shall include, but not be limited to, regular opacity readings, pressure differential measurements, and maintenance inspections. Logging of these data shall be required with the log kept on-site for a minimum of five years. This log shall be provided to District personnel on request.

31. BAGHOUSE (JBH 21) – MDAQMD PERMIT # C004858; consisting of:

Serving a transfer point in the Handling and Storage System for Clinker Product serving Finish Mills 7, 8, 9 and 10 (B000009) with the following specifications:

Mfg. By DCE, Inc.

Model No.: C24H Pulse

Exhaust Fan: 3 hp & 1500 cfm

A/C: 5.8:1 & 258 ft²

PERMIT CONDITIONS; (UNLESS OTHERWISE STATED ALL CONDITIONS RESULT FROM RULE 204 - PERMIT CONDITIONS; VERSION IN SIP = CARB EX. ORDER G-73, 40 CFR 52.220(C)(39)(II)(B) - 11/09/78 43 FR 52237; CURRENT RULE VERSION = 07/25/77:

1. The owner/operator (o/o) shall operate/maintain this equipment in strict accord with recommendations of the manufacturer and/or sound engineering practices.
2. The operating instructions shall be immediately available for use by the operator and provided to District personnel upon request.
3. This equipment shall be operated concurrently with the Handling and Storage System serving Finish Mills 7, 8, 9, and 10 covered in District permit B000009.
4. The o/o shall have a continuing program of maintenance/inspections in accord with manufacturer's recommendations and specifications which ensures compliance with District Rules. This program shall include, but not be limited to, regular opacity

readings, pressure differential measurements, and maintenance inspections. Logging of these data shall be required with the log kept on-site for a minimum of five years. This log shall be provided to District personnel on request.

32. BAGHOUSE (JBH 22) – MDAQMD PERMIT # C004859; consisting of:

Serving a transfer point in the Handling and Storage System for Clinker Product serving Finish Mills 7, 8, 9 and 10 (B000009) with the following specifications:

Mfg. By DCE, Inc.

Model No.: C24H Pulse

Exhaust Fan: 3 hp & 1500 cfm

A/C: 5.8:1 & 258 ft²

PERMIT CONDITIONS; (UNLESS OTHERWISE STATED ALL CONDITIONS RESULT FROM RULE 204 - PERMIT CONDITIONS; VERSION IN SIP = CARB EX. ORDER G-73, 40 CFR 52.220(C)(39)(II)(B) - 11/09/78 43 FR 52237; CURRENT RULE VERSION = 07/25/77:

1. The owner/operator (o/o) shall operate/maintain this equipment in strict accord with recommendations of the manufacturer and/or sound engineering practices.
2. The operating instructions shall be immediately available for use by the operator and provided to District personnel upon request.
3. This equipment shall be operated concurrently with the Handling and Storage System serving Finish Mills 7,8,9, and 10 covered in District permit B000009.
4. The o/o shall have a continuing program of maintenance/inspections in accord with manufacturer's recommendations and specifications which ensures compliance with District Rules. This program shall include, but not be limited to, regular opacity readings, pressure differential measurements, and maintenance inspections. Logging of these data shall be required with the log kept on-site for a minimum of five years. This log shall be provided to District personnel on request.

33. BAGHOUSE (JBH 23) – MDAQMD PERMIT # C004860; consisting of:

Serving a transfer point in the Handling and Storage System for Clinker Product serving Finish Mills 7, 8, 9 and 10 (B000009) with the following specifications:

Mfg. By DCE, Inc.

Model No.: C24H Pulse

Exhaust Fan: 3 hp & 1500 cfm
A/C: 5.8:1 & 258 ft²

PERMIT CONDITIONS; (UNLESS OTHERWISE STATED ALL CONDITIONS RESULT FROM RULE 204 - PERMIT CONDITIONS; VERSION IN SIP = CARB EX. ORDER G-73, 40 CFR 52.220(C)(39)(II)(B) - 11/09/78 43 FR 52237; CURRENT RULE VERSION = 07/25/77:

1. The owner/operator (o/o) shall operate/maintain this equipment in strict accord with recommendations of the manufacturer and/or sound engineering practices.
2. The operating instructions shall be immediately available for use by the operator and provided to District personnel upon request.
3. This equipment shall be operated concurrently with the Handling and Storage System serving Finish Mills 7,8,9, and 10 covered in District permit B000009.
4. The o/o shall have a continuing program of maintenance/inspections in accord with manufacturer's recommendations and specifications which ensures compliance with District Rules. This program shall include, but not be limited to, regular opacity readings, pressure differential measurements, and maintenance inspections. Logging of these data shall be required with the log kept on-site for a minimum of five years. This log shall be provided to District personnel on request.

34. **BAGHOUSE (JBH 24) – MDAQMD PERMIT # C004861; consisting of:**
Serving a transfer point in the Handling and Storage System for Clinker Product serving Finish Mills 7, 8, 9 and 10 (B000009) with the following specifications:
Mfg. By DCE, Inc.
Model No.: C24H Pulse
Exhaust Fan: 3 hp & 1500 cfm
A/C: 5.8:1 & 258 ft²

PERMIT CONDITIONS; (UNLESS OTHERWISE STATED ALL CONDITIONS RESULT FROM RULE 204 - PERMIT CONDITIONS; VERSION IN SIP = CARB EX. ORDER G-73, 40 CFR 52.220(C)(39)(II)(B) - 11/09/78 43 FR 52237; CURRENT RULE VERSION = 07/25/77:

1. The owner/operator (o/o) shall operate/maintain this equipment in strict accord with recommendations of the manufacturer and/or sound engineering practices.

2. The operating instructions shall be immediately available for use by the operator and provided to District personnel upon request.
3. This equipment shall be operated concurrently with the Handling and Storage System serving Finish Mills 7,8,9, and 10 covered in District permit B000009.
4. The o/o shall have a continuing program of maintenance/inspections in accord with manufacturer's recommendations and specifications which ensures compliance with District Rules. This program shall include, but not be limited to, regular opacity readings, pressure differential measurements, and maintenance inspections. Logging of these data shall be required with the log kept on-site for a minimum of five years. This log shall be provided to District personnel on request.

35. BAGHOUSE (JBH 25) – MDAQMD PERMIT # C004862; consisting of:

Serving a transfer point in the Handling and Storage System for Clinker Product serving Finish Mills 7, 8, 9 and 10 (B000009) with the following specifications:

Mfg. By DCE, Inc.

Model No.: C24H Pulse

Exhaust Fan: 3 hp & 1500 cfm

A/C: 5.8:1 & 258 ft²

PERMIT CONDITIONS; (UNLESS OTHERWISE STATED ALL CONDITIONS RESULT FROM RULE 204 - PERMIT CONDITIONS; VERSION IN SIP = CARB EX. ORDER G-73, 40 CFR 52.220(C)(39)(II)(B) - 11/09/78 43 FR 52237; CURRENT RULE VERSION = 07/25/77:

1. The owner/operator (o/o) shall operate/maintain this equipment in strict accord with recommendations of the manufacturer and/or sound engineering practices.
2. The operating instructions shall be immediately available for use by the operator and provided to District personnel upon request.
3. This equipment shall be operated concurrently with the Handling and Storage System serving Finish Mills 7,8,9, and 10 covered in District permit B000009.
4. The o/o shall have a continuing program of maintenance/inspections in accord with manufacturer's recommendations and specifications which ensures compliance with District Rules. This program shall include, but not be limited to, regular opacity

readings, pressure differential measurements, and maintenance inspections. Logging of these data shall be required with the log kept on-site for a minimum of five years. This log shall be provided to District personnel on request.

36. BAGHOUSE (JBH 26) – MDAQMD PERMIT # C004863; consisting of:

Serving a transfer point in the Handling and Storage System for Clinker Product serving Finish Mills 7, 8, 9 and 10 (B000009) with the following specifications:

Mfg. By DCE, Inc.

Model No.: C24H Pulse

Exhaust Fan: 3 hp & 1500 cfm

A/C: 5.8:1 & 258 ft²

PERMIT CONDITIONS; (UNLESS OTHERWISE STATED ALL CONDITIONS RESULT FROM RULE 204 - PERMIT CONDITIONS; VERSION IN SIP = CARB EX. ORDER G-73, 40 CFR 52.220(C)(39)(II)(B) - 11/09/78 43 FR 52237; CURRENT RULE VERSION = 07/25/77:

1. The owner/operator (o/o) shall operate/maintain this equipment in strict accord with recommendations of the manufacturer and/or sound engineering practices.
2. The operating instructions shall be immediately available for use by the operator and provided to District personnel upon request.
3. This equipment shall be operated concurrently with the Handling and Storage System serving Finish Mills 7,8,9, and 10 covered in District permit B000009.
4. The o/o shall have a continuing program of maintenance/inspections in accord with manufacturer's recommendations and specifications which ensures compliance with District Rules. This program shall include, but not be limited to, regular opacity readings, pressure differential measurements, and maintenance inspections. Logging of these data shall be required with the log kept on-site for a minimum of five years. This log shall be provided to District personnel on request.

37. BAGHOUSE (JBH 16) – MDAQMD PERMIT # C008245; consisting of:

DCE Model C24H, Pulse-Jet, airflow of 1500 acfm at ambient temperature, 3 bhp motor, Polyester Bags, 258 ft² of cloth area and Air-to-Cloth ratio of 5.8:1, maximum emission rate of 0.01 grains PM-10/dscf

PERMIT CONDITIONS; (UNLESS OTHERWISE STATED ALL CONDITIONS RESULT FROM RULE 204 - PERMIT CONDITIONS; VERSION IN SIP = CARB EX. ORDER G-73, 40 CFR 52.220(C)(39)(II)(B) - 11/09/78 43 FR 52237; CURRENT RULE VERSION = 07/25/77:

1. The owner/operator (o/o) shall install, operate and maintain this dust collector in strict accord with those recommendations of the manufacturer/supplier, and sound engineering principles, which produce minimum emissions of air contaminants.
2. The o/o shall institute a program of maintenance which embraces; visible emission determinations performed according to the frequency outlined in the attached summary Table entitled "MACT Standard -- Portland Cement Manufacturing Industry", monthly visual inspections of all associated equipment (inclusive of the bags and their suspensions system) in accordance with 40CFR Part 63.1350, and regular (to be determined with experience with this unit) measurements of the pressure differential across the bags.
3. The o/o shall log all the items in 2 above in addition to bag replacements, repairs and non-scheduled maintenance. The log shall be kept current, on-site for a minimum of 5 years and provided to District personnel on request.
4. The o/o shall maintain an inventory of replacement bags on-site at all times which will ensure compliance with applicable Rules of District Regulation IV.
5. The o/o shall install and maintain a device which measures the pressure differential across the bags if one has not been provided with this unit.
6. This baghouse shall operate concurrently with the Clinker and Gypsum System under valid District permit number B000009 at Clinker bin JCH7.
7. This baghouse shall discharge no more than 0.13 lb/hour, at a maximum concentration of 0.01 grains/dscf of PM10, at the operating conditions described above.
8. Opacity measurements shall not exceed 10% aggregated for 3 minutes in any 1-hour period.
9. Regular emissions testing for demonstration of compliance with District rules 404 and 405 are not required, however, an initial source test is required as noted below. The District may require additional emissions testing at its discretion.
10. Within Sixty days of initial start-up, the o/o shall conduct a compliance test in accordance

with the District Compliance Test Procedural Manual to verify the PM-10 emission factor of 0.01 grains/DSCF, as submitted with the application. This test is required to show compliance with Permit conditions and Rules 404 and 405. The District shall be notified at least 10 working days prior to the test date. The test report shall be submitted to the District within 45 days following the tests.

38. TRANSFER SYSTEM – MDAQMD PERMIT # B001788; consisting of:

To Clinker/Gypsum Bins. Control: C001284 (JBH9); C001911 (JBH10).

Belt Conveyor - JBC13

Clinker Tripper - JBC13T

PERMIT CONDITIONS; (UNLESS OTHERWISE STATED ALL CONDITIONS RESULT FROM RULE 204 - PERMIT CONDITIONS; VERSION IN SIP = CARB EX. ORDER G-73, 40 CFR 52.220(C)(39)(II)(B) - 11/09/78 43 FR 52237; CURRENT RULE VERSION = 07/25/77:

1. This equipment shall not be operated unless it is vented to functioning air pollution control equipment covered by valid District permits C001284 and C001911.

39. BAGHOUSE (JBH 9) – MDAQMD PERMIT # C001284; consisting of:

Serves Clinker Conveyor to Storage (B001788).

Baghouse, Clinker and Gypsum Reclaim, Flex Kleen model 120 WRTC-48 (III), 734 ft² cloth area, 3,500 cfm, 25 hp - JBH9

PERMIT CONDITIONS; (UNLESS OTHERWISE STATED ALL CONDITIONS RESULT FROM RULE 204 - PERMIT CONDITIONS; VERSION IN SIP = CARB EX. ORDER G-73, 40 CFR 52.220(C)(39)(II)(B) - 11/09/78 43 FR 52237; CURRENT RULE VERSION = 07/25/77:

1. Particulate emissions shall not exceed a discharge grain loading of 0.02 gr/ACF.
2. The owner/operator (o/o) shall operate this control equipment in strict accord with the manufacturer's specification and/or sound engineering principles.
3. The o/o shall maintain a record of repairs and maintenance on this equipment and submit it to the District on request. The record shall be retained for a minimum period of five years.

4. The o/o shall maintain on-site, as a minimum, an inventory of replacement bags that assures compliance with applicable Rules of District Regulation IV.

40. BAGHOUSE (JBH 10) – MDAQMD PERMIT # C001911; consisting of:

Serves Clinker Conveyor to Storage (B001788).

Pulse Jet type Dust Collector, Clinker/Gypsum Reclaim, DCE Vokes, 215 ft², 1,500 cfm.

Fan: 5 hp. - JBH10

PERMIT CONDITIONS; (UNLESS OTHERWISE STATED ALL CONDITIONS RESULT FROM RULE 204 - PERMIT CONDITIONS; VERSION IN SIP = CARB EX. ORDER G-73, 40 CFR 52.220(C)(39)(II)(B) - 11/09/78 43 FR 52237; CURRENT RULE VERSION = 07/25/77:

1. Particulate emissions shall not exceed a discharge grain loading of 0.02 gr/ACF.
2. The owner/operator (o/o) shall operate this control equipment in strict accord with the manufacturer's specification and/or sound engineering principles.
3. The o/o shall maintain a record of repairs and maintenance on this equipment and submit it to the District on request. The record shall be retained for a minimum period of five years.
4. The o/o shall maintain on-site, as a minimum, an inventory of replacement bags that assures compliance with applicable Rules of District Regulation IV.

GROUP #3A – FINISH MILL #1 (FM #1)

41. FINISH MILL (KM 1) –MDAQMD PERMIT # B005192; consisting of:

A finish grinding system with the following equipment (as shown on diagram 9948-F-210):

Discharge Airslide Fan

Elevator Airslide Fan

SKS Rejects Airslide Fan

SKS Baghouse Airslide Fan

Product Airslide Gan #1

Cement Cooler Bypass Diverter Gate

SKS Separator (and related misc)
Feed Belt Conveyor
Feed Nuisance Baghouse
Feed Nuisance Baghouse Fan
Sweep Baghouse
Sweep Baghouse Rotary Airlock
Sweep Fan
Sweep Fan Damper
Sweep Baghouse Hopper Screw Conveyor
Sweep Baghouse Transport Screw Conveyor
SKS Baghouse
SKS Baghouse Rotary Airlocks (2, 7.5 hp each)
SKS Separator Fan
SKS Separator Fan Damper
Cement Bag Filter Fan
Cement Cooler (and related misc)
Bucket Elevator (and related misc)
Finish Mill #1 - KM1 (and related misc)
Ball Traps
Ball Trap Blower
SKS Rejects Flowmeter
Grinding Aid System (and related misc)
Floating Bearing Lube Oil System (and related misc)
Fixed Bearing Lube Oil System (and related misc)
MAAG Drive Lube System
Motor Bearing Lube System
Spray Water System
Plant Air Compressor/Air Dryer
Clinker Weighfeeder
Clinker Weighfeeder Cleanup Drag Conveyor
Gypsum Weighfeeder (and related misc)
Gypsum Weighfeeder Cleanup Conveyor
Feed Nuisance Baghouse Rotary Valve

PERMIT CONDITIONS; (UNLESS OTHERWISE STATED ALL CONDITIONS
RESULT FROM RULE 204 - PERMIT CONDITIONS; VERSION IN SIP = CARB EX.
ORDER G-73, 40 CFR 52.220(C)(39)(II)(B) - 11/09/78 43 FR 52237; CURRENT RULE
VERSION = 07/25/77:

1. This equipment shall not be operated without the concurrent operation of properly

maintained air pollution control equipment covered by valid District permits, as follows: Finish Mill Sweep Dust Collector (C005196), Finish Mill Separator Dust Collector (C005195), Product Nuisance Dust Collector (C005194), and Feed Belt Dust Collector (C005193).

2. This equipment shall not be operated unless the following areas are stabilized with asphalt, concrete or asphaltic concrete sufficient to eliminate dust emissions from soil erosion: ~50,000 sq. ft. of employee parking lot northeast of the River Plant entrance; ~12,000 sq. ft. of access beneath and around the River Plant Truck Access Platform; ~5,000 sq. ft. of parking lot east of the River Plant main office building; ~15,000 sq. ft. of parking and access north of the Quarry Control Room; ~35,000 sq. ft. of access and operations area west of the Quarry maintenance building; ~60,000 sq. ft. of access and operations area south and east of the Quarry maintenance building; ~20,000 sq. ft. of access and operations area north of the K2 baghouse; ~7,000 sq. ft. of access around K2 pier six; ~10,000 sq. ft. of access and operations area around the Quarry Therminol Building; and ~3,000 square feet of access and operations area south of the K2 Preheater dust collectors.

42. BAGHOUSE (KBH 23) – MDAQMD PERMIT # C005193; consisting of:

Product Nuisance Dust Collector equipped with a 50 hp fan generating 10,000 acfm with an exhaust temperature of 100 deg F. Baghouse manufacturer, bag material, number of bags, bag dimensions and total filter surface area will be specified by the applicant when determined.

PERMIT CONDITIONS; (UNLESS OTHERWISE STATED ALL CONDITIONS RESULT FROM RULE 204 - PERMIT CONDITIONS; VERSION IN SIP = CARB EX. ORDER G-73, 40 CFR 52.220(C)(39)(II)(B) - 11/09/78 43 FR 52237; CURRENT RULE VERSION = 07/25/77:

1. This baghouse shall operate concurrently with the equipment described as the Finish Mill KM1 (B005192).
2. The owner/operator (o/o) shall conduct a minimum program of inspection and maintenance (frequencies may be changed upon successful demonstration to the District that less frequent monitoring is equally effective). The o/o shall maintain current and on-site for five (5) years a log of this information which shall be provided to District personnel upon request:
 - a. Pressure differential across the bags (weekly);
 - b. Baghouse stack visible emissions determination (monthly);

- c. Bags and bag suspension system inspection (quarterly); and
 - d. Bag replacements and repairs.
- 3. The o/o shall install, operate and maintain this dust collector in strict accord with those recommendations of the manufacturer/supplier, and sound engineering principles which produce minimum emissions of air contaminants.
 - 4. The o/o shall maintain an inventory of replacement bags on-site at all times which will ensure compliance with applicable Rules of District Regulation IV.
 - 5. The o/o shall install and maintain a device which measures the pressure differential across the bags if one has not been provided with this unit.
 - 6. This baghouse shall discharge no more than 0.80 lb/hour of particulate at a maximum concentration of 0.010 grain/dscf at the operating conditions given in the above description.
 - 7. Within 180 days from the initial start-up of this unit, the o/o shall conduct emissions testing in strict accord with all procedures described in the District's Compliance Test Procedural Manual. This testing is necessary to demonstrate compliance with permit conditions in 6 above and District Rules 404 and 405. The District shall be notified no less than 10 working days prior to the test and receive the final test report of emissions no later than 45 days subsequent to the final day of on-site sampling and measurement.
43. **BAGHOUSE (KBH 20) – MDAQMD PERMIT # C005194; consisting of:**
Feed Belt Dust Collector equipped with a 50 hp fan generating 5000 acfm with an exhaust temperature of 100 deg F. Baghouse manufacturer, bag material, number of bags, bag dimensions and total filter surface area will be specified by the applicant when determined.

PERMIT CONDITIONS; (UNLESS OTHERWISE STATED ALL CONDITIONS
RESULT FROM RULE 204 - PERMIT CONDITIONS; VERSION IN SIP = CARB EX.
ORDER G-73, 40 CFR 52.220(C)(39)(II)(B) - 11/09/78 43 FR 52237; CURRENT RULE
VERSION = 07/25/77:

- 1. This baghouse shall operate concurrently with the equipment described as the Finish Mill KM1 (B005192).
- 2. The owner/operator (o/o) shall conduct a minimum program of inspection and

maintenance (frequencies may be changed upon successful demonstration to the District that less frequent monitoring is equally effective). The o/o shall maintain current and on-site for five (5) years a log of this information which shall be provided to District personnel upon request:

- a. Pressure differential across the bags (weekly);
 - b. Baghouse stack visible emissions determination (monthly);
 - c. Bags and bag suspension system inspection (quarterly); and
 - d. Bag replacements and repairs.
3. The o/o shall install, operate and maintain this dust collector in strict accord with those recommendations of the manufacturer/supplier, and sound engineering principles which produce minimum emissions of air contaminants.
 4. The o/o shall maintain an inventory of replacement bags on-site at all times which will ensure compliance with applicable Rules of District Regulation IV.
 5. The o/o shall install and maintain a device which measures the pressure differential across the bags if one has not been provided with this unit.
 6. This baghouse shall discharge no more than 0.40 lb/hour of particulate at a maximum concentration of 0.010 grain/dscf at the operating conditions given in the above description.
 7. Within 180 days from the initial start-up of this unit, the o/o shall conduct emissions testing in strict accord with all procedures described in the District's Compliance Test Procedural Manual. This testing is necessary to demonstrate compliance with permit conditions in 6 above and District Rules 404 and 405. The District shall be notified no less than 10 working days prior to the test and receive the final test report of emissions no later than 45 days subsequent to the final day of on-site sampling and measurement.
44. **BAGHOUSE (KBH 20) – MDAQMD PERMIT # C005194; consisting of:**
Finish Mill #1 (KM1) Separator Stack Dust Collector filtering the exhaust stream from the separator generated by the separator 800 hp fan (173,000 acfm) with an exhaust temperature of 176 deg F. Baghouse manufacturer, bag material, number of bags, bag dimensions and total filter surface area will be specified by the applicant when determined.

PERMIT CONDITIONS; (UNLESS OTHERWISE STATED ALL CONDITIONS
RESULT FROM RULE 204 - PERMIT CONDITIONS; VERSION IN SIP = CARB EX.

ORDER G-73, 40 CFR 52.220(C)(39)(II)(B) - 11/09/78 43 FR 52237; CURRENT RULE VERSION = 07/25/77:

1. This baghouse shall operate concurrently with the equipment described as the Finish Mill KM1 (B005192).
 2. The owner/operator (o/o) shall conduct a minimum program of inspection and maintenance (frequencies may be changed upon successful demonstration to the District that less frequent monitoring is equally effective). The o/o shall maintain current and on-site for five (5) years a log of this information which shall be provided to District personnel upon request:
 - a. Pressure differential across the bags (weekly);
 - b. Baghouse stack visible emissions determination (monthly);
 - c. Bags and bag suspension system inspection (quarterly); and
 - d. Bag replacements and repairs.
 3. The o/o shall install, operate and maintain this dust collector in strict accord with those recommendations of the manufacturer/supplier, and sound engineering principles which produce minimum emissions of air contaminants.
 4. The o/o shall maintain an inventory of replacement bags on-site at all times which will ensure compliance with applicable Rules of District Regulation IV.
 5. The o/o shall install and maintain a device which measures the pressure differential across the bags if one has not been provided with this unit.
 6. This baghouse shall discharge no more than 12.12 lb/hour of particulate at a maximum concentration of 0.010 grain/dscf at the operating conditions given in the above description.
 7. Within 180 days from the initial start-up of this unit, the o/o shall conduct emissions testing in strict accord with all procedures described in the District's Compliance Test Procedural Manual. This testing is necessary to demonstrate compliance with permit conditions in 6 above and District Rules 404 and 405. The District shall be notified no less than 10 working days prior to the test and receive the final test report of emissions no later than 45 days subsequent to the final day of on-site sampling and measurement.
45. **BAGHOUSE (KBH 21) – MDAQMD PERMIT # C005196; consisting of:**
Finish Mill #1 (KM1) Sweep Dust Collector, equipped with a 200 hp fan generating

45,000 acfm with an exhaust temperature of 221 deg F. Baghouse manufacturer, bag material, number of bags, bag dimensions and total filter surface area will be specified by the applicant when determined.

PERMIT CONDITIONS; (UNLESS OTHERWISE STATED ALL CONDITIONS RESULT FROM RULE 204 - PERMIT CONDITIONS; VERSION IN SIP = CARB EX. ORDER G-73, 40 CFR 52.220(C)(39)(II)(B) - 11/09/78 43 FR 52237; CURRENT RULE VERSION = 07/25/77:

1. This baghouse shall operate concurrently with the equipment described as the Finish Mill KM1 (B005192).
2. The owner/operator (o/o) shall conduct a minimum program of inspection and maintenance (frequencies may be changed upon successful demonstration to the District that less frequent monitoring is equally effective). The o/o shall maintain current and on-site for five (5) years a log of this information which shall be provided to District personnel upon request:
 - a. Pressure differential across the bags (weekly);
 - b. Baghouse stack visible emissions determination (monthly);
 - c. Bags and bag suspension system inspection (quarterly); and
 - d. Bag replacements and repairs.
3. The o/o shall install, operate and maintain this dust collector in strict accord with those recommendations of the manufacturer/supplier, and sound engineering principles which produce minimum emissions of air contaminants.
4. The o/o shall maintain an inventory of replacement bags on-site at all times which will ensure compliance with applicable Rules of District Regulation IV.
5. The o/o shall install and maintain a device which measures the pressure differential across the bags if one has not been provided with this unit.
6. This baghouse shall discharge no more than 2.95 lb/hour of particulate at a maximum concentration of 0.010 grain/dscf at the operating conditions given in the above description.
7. Within 180 days from the initial start-up of this unit, the o/o shall conduct emissions testing in strict accord with all procedures described in the District's Compliance Test Procedural Manual. This testing is necessary to demonstrate compliance with permit conditions in 6 above and District Rules 404 and 405. The District shall be notified no

less than 10 working days prior to the test and receive the final test report of emissions no later than 45 days subsequent to the final day of on-site sampling and measurement.

GROUP #3B – FINISH MILLS (#7, #8, #9, #10) & CEMENT STORAGE

46. FINISH MILL (KFM7)- MDAQMD PERMIT # B000045; consisting of:

Control: C000046 (KBH7) 155 hp.
Belt Feeders, 2 (KWF7C and KWF7GS)
Finish Mill - KFM7
Elevator - KE7
Air Separator - KAS7

PERMIT CONDITIONS; (UNLESS OTHERWISE STATED ALL CONDITIONS RESULT FROM RULE 204 - PERMIT CONDITIONS; VERSION IN SIP = CARB EX. ORDER G-73, 40 CFR 52.220(C)(39)(II)(B) - 11/09/78 43 FR 52237; CURRENT RULE VERSION = 07/25/77:

1. This equipment shall not be operated unless it is vented to functioning air pollution control equipment covered by valid District permit C000046.

47. AIR POLLUTION CONTROL EQUIPMENT (KBH 7) – MDAQMD PERMIT # C000046; consisting of:

Serving Finish Mill No. 7 (B000045).
Baghouse, SWPM MkIII, 9 Compartments, 648 bags - 6" dia x 118" 1. 9,504 ft2 cloth, 25,000 cfm, 155 hp - KBH7

PERMIT CONDITIONS; (UNLESS OTHERWISE STATED ALL CONDITIONS RESULT FROM RULE 204 - PERMIT CONDITIONS; VERSION IN SIP = CARB EX. ORDER G-73, 40 CFR 52.220(C)(39)(II)(B) - 11/09/78 43 FR 52237; CURRENT RULE VERSION = 07/25/77:

1. The owner/operator (o/o) shall operate this control equipment in strict accord with the manufacturer's specification and/or sound engineering principles.

2. The o/o shall maintain a record of repairs and maintenance on this equipment and submit it to the District on request. The record shall be retained for a minimum period of five years.
3. The o/o shall maintain on-site, as a minimum, an inventory of replacement bags that assures compliance with applicable Rules of District Regulation IV.

48. FINISH MILL (KFM8) – MDAQMD PERMIT # B000047; consisting of:

Control: C000048 (KBH8) 60 hp
Belt Feeders, 2 - KWF8C & KWF8GS
Finish Mill - KFM8
Elevator - KE8
Air Separator - KAS8

PERMIT CONDITIONS; (UNLESS OTHERWISE STATED ALL CONDITIONS RESULT FROM RULE 204 - PERMIT CONDITIONS; VERSION IN SIP = CARB EX. ORDER G-73, 40 CFR 52.220(C)(39)(II)(B) - 11/09/78 43 FR 52237; CURRENT RULE VERSION = 07/25/77:

1. This equipment shall not be operated unless it is vented to functioning air pollution control equipment covered by valid District permit C000048.

49. AIR POLLUTION CONTROL EQUIPMENT (KBH 8) – MDAQMD PERMIT # C000048; consisting of:

Serving Finish Mill No. 8 (B000047).
Baghouse, SWPC Mk V, 4 Compartments, 288 bags, 6" dia x 156" l, 5,656 ft2 cloth, 16,000 cfm, 60 hp - KBH8

PERMIT CONDITIONS; (UNLESS OTHERWISE STATED ALL CONDITIONS RESULT FROM RULE 204 - PERMIT CONDITIONS; VERSION IN SIP = CARB EX. ORDER G-73, 40 CFR 52.220(C)(39)(II)(B) - 11/09/78 43 FR 52237; CURRENT RULE VERSION = 07/25/77:

1. The owner/operator (o/o) shall operate this control equipment in strict accord with the manufacturer's specification and/or sound engineering principles.
2. The o/o shall maintain a record of repairs and maintenance on this equipment and submit it to the District on request. The record shall be retained for a minimum period of five

years.

3. The o/o shall maintain on-site, as a minimum, an inventory of replacement bags that assures compliance with applicable Rules of District Regulation IV.

50. FINISH MILL (KE 9) – MDAQMD PERMIT # B000049; consisting of:

Control: C000050 (KBH9) 65 hp
Belt Feeders, 2 - KWF9C & KWF9GS
Finish Mill - KFM9
Elevator - KE9
Air Separator - KAS9

PERMIT CONDITIONS; (UNLESS OTHERWISE STATED ALL CONDITIONS RESULT FROM RULE 204 - PERMIT CONDITIONS; VERSION IN SIP = CARB EX. ORDER G-73, 40 CFR 52.220(C)(39)(II)(B) - 11/09/78 43 FR 52237; CURRENT RULE VERSION = 07/25/77:

1. This equipment shall not be operated unless it is vented to functioning air pollution control equipment covered by valid District permit C000050.

51. AIR POLLUTION CONTROL EQUIPMENT (KBH 9) – MDAQMD PERMIT # C000050; consisting of:

Serving Finish Mill No. 9 (B000049).
Baghouse, SWPC Mk V, 4 Compartments, 288 bags, 6" dia x 156" 1, 5,656 ft² cloth, 16,000 cfm, 65 hp - KBH9

PERMIT CONDITIONS; (UNLESS OTHERWISE STATED ALL CONDITIONS RESULT FROM RULE 204 - PERMIT CONDITIONS; VERSION IN SIP = CARB EX. ORDER G-73, 40 CFR 52.220(C)(39)(II)(B) - 11/09/78 43 FR 52237; CURRENT RULE VERSION = 07/25/77:

1. The owner/operator (o/o) shall operate this control equipment in strict accord with the manufacturer's specification and/or sound engineering principles.
2. The o/o shall maintain a record of repairs and maintenance on this equipment and submit it to the District on request. The record shall be retained for a minimum period of five years.

3. The o/o shall maintain on-site, as a minimum, an inventory of replacement bags that assures compliance with applicable Rules of District Regulation IV.

52. FINISH MILL (KFM10) – MDAQMD PERMIT # B000051; consisting of:

Control: C000052 (KBH10) 100 hp
Belt Feeders, 2 - KWF10C & KWF10G
Finish Mill - KFM10
Elevator - KE10
Air Separator - KAS10

PERMIT CONDITIONS; (UNLESS OTHERWISE STATED ALL CONDITIONS RESULT FROM RULE 204 - PERMIT CONDITIONS; VERSION IN SIP = CARB EX. ORDER G-73, 40 CFR 52.220(C)(39)(II)(B) - 11/09/78 43 FR 52237; CURRENT RULE VERSION = 07/25/77:

1. This equipment shall not be operated unless it is vented to functioning air pollution control equipment covered by valid District permit C000052.

53. AIR POLLUTION CONTROL EQUIPMENT (KBH 10) – MDAQMD PERMIT # C000052; consisting of:

Serving Finish Mill No. 10 (B000051).
Baghouse, SWPC Mk V, 4 Compartments, 288 bags, 6" dia x 156" 1, 5,650 ft2 cloth, 18,000 cfm, 100 hp - KBH10

PERMIT CONDITIONS; (UNLESS OTHERWISE STATED ALL CONDITIONS RESULT FROM RULE 204 - PERMIT CONDITIONS; VERSION IN SIP = CARB EX. ORDER G-73, 40 CFR 52.220(C)(39)(II)(B) - 11/09/78 43 FR 52237; CURRENT RULE VERSION = 07/25/77:

1. The owner/operator (o/o) shall operate this control equipment in strict accord with the manufacturer's specification and/or sound engineering principles.
2. The o/o shall maintain a record of repairs and maintenance on this equipment and submit it to the District on request. The record shall be retained for a minimum period of five years.
3. The o/o shall maintain on-site, as a minimum, an inventory of replacement bags that assures compliance with applicable Rules of District Regulation IV.

54. CEMENT TRANSFER TO STORAGE (DEPT. 60) – MDAQMD PERMIT # B000059; consisting of:

Controls: C000060 (LBH1) 25 hp; C000061 (LBH2) 25 hp; C000062 (LBH3) 25 hp; C000063 (LBH4) 50 hp; C000064 (LBH5) 3 hp; C000065 (LBH6) 40 hp; C008247 (LBH8) 15 hp; C001569 (LBH9) 7.5 hp; C008246 (LBH10) 15 hp; C008565 (LBH11) 7.5 hp; and C008566 (LBH12) 50 hp:

Air Slide System

Cement Pump System (from Finish Mills 7, 8, 9, 10) 4 @ 200, 3 @ 75, 1 @ 60 hp

Feed System Group 1 Silos: MSC12 Screw Conveyor

Transfer System from Silo 3: 4B Screw Conveyors LSC11 & LSC12 @ 5 hp ea.

Feed System Group 2 Silos: LRS1 Rot Screen

Silo Fill Screw Conveyor

Feed System Group 3 Silos: LRS2 Rot Screen

LSC5 Screw Conveyor

Feed System Group 4 Silos: LRS3 Rot Screen

LSC4 Rot Screen

Silo Fill System

PERMIT CONDITIONS; (UNLESS OTHERWISE STATED ALL CONDITIONS RESULT FROM RULE 204 - PERMIT CONDITIONS; VERSION IN SIP = CARB EX. ORDER G-73, 40 CFR 52.220(C)(39)(II)(B) - 11/09/78 43 FR 52237; CURRENT RULE VERSION = 07/25/77:

1. Equipment shall not be operated unless it is vented to functioning air pollution control equipment covered by valid District permits: C000060, C000061, C000062, C000063, C000064, C000065, C001569, C008246, C008247, C008565 and C008566.

55. AIR POLLUTION CONTROL EQUIPMENT (LBH 1) – MDAQMD PERMIT # C000060; consisting of:

Serving Cement to Group 2 Silos System (B000059).

Baghouse, SWPC Dwg. D99-M101, 2 Compartments, 144 bags, 6" dia x 166" 1, 3,016 ft² cloth area, 6,000 cfm, 25 hp - LBH1

PERMIT CONDITIONS; (UNLESS OTHERWISE STATED ALL CONDITIONS RESULT FROM RULE 204 - PERMIT CONDITIONS; VERSION IN SIP = CARB EX. ORDER G-73, 40 CFR 52.220(C)(39)(II)(B) - 11/09/78 43 FR 52237; CURRENT RULE VERSION = 07/25/77:

1. The owner/operator (o/o) shall operate this control equipment in strict accord with the manufacturer's specification and/or sound engineering principles.
2. The o/o shall maintain a record of repairs and maintenance on this equipment and submit it to the District on request. The record shall be retained for a minimum period of five years.
3. The o/o shall maintain on-site, as a minimum, an inventory of replacement bags that assures compliance with applicable Rules of District Regulation IV.

56. AIR POLLUTION CONTROL EQUIPMENT (LBH 2) – MDAQMD PERMIT # C000061; consisting of:

Serving Cement to Group 4 Silos System (B000059).

Mikro-Pul Pulse Jet, 2,500 ft², 10,000 acfm @ 140 degrees F, model 210-S-10 TR, 1.53' dia x 122' high. Fan: American Blower type E, size 450, 25 hp - LBH2

PERMIT CONDITIONS; (UNLESS OTHERWISE STATED ALL CONDITIONS RESULT FROM RULE 204 - PERMIT CONDITIONS; VERSION IN SIP = CARB EX. ORDER G-73, 40 CFR 52.220(C)(39)(II)(B) - 11/09/78 43 FR 52237; CURRENT RULE VERSION = 07/25/77:

1. The owner/operator (o/o) shall operate this control equipment in strict accord with the manufacturer's specification and/or sound engineering principles.
2. The o/o shall maintain a record of repairs and maintenance on this equipment and submit it to the District on request. The record shall be retained for a minimum period of five years.
3. The baghouse shall be fitted with an airlock on each material discharge port.
4. Baghouse (and each module thereof) shall be provided with magnehelic gauges (or equivalent differential pressure measuring devices). The nominal operation differential pressure is 2 to 6 inches water gauge.
5. The o/o shall maintain on-site, as a minimum, an inventory of replacement bags that assures compliance with applicable Rules of District Regulation IV.

57. AIR POLLUTION CONTROL EQUIPMENT (LBH 3) – MDAQMD PERMIT # C000062; consisting of:

Serving Cement to Group 4 Silos System (B000059).

Mikro-Pul Pulse Jet, 2,500 ft², 10,000 acfm @ 140 degrees F, model 210-S-10 TR, 1.53' dia x 122' high. Fan: American Blower type E, size 450, 25 hp - LBH3

PERMIT CONDITIONS; (UNLESS OTHERWISE STATED ALL CONDITIONS RESULT FROM RULE 204 - PERMIT CONDITIONS; VERSION IN SIP = CARB EX. ORDER G-73, 40 CFR 52.220(C)(39)(II)(B) - 11/09/78 43 FR 52237; CURRENT RULE VERSION = 07/25/77:

1. The owner/operator (o/o) shall operate this control equipment in strict accord with the manufacturer's specification and/or sound engineering principles.
2. The o/o shall maintain a record of repairs and maintenance on this equipment and submit it to the District on request. The record shall be retained for a minimum period of five years.
3. The baghouse shall be fitted with an airlock on each material discharge port.
4. Baghouse (and each module thereof) shall be provided with magnehelic gauges (or equivalent differential pressure measuring devices). The nominal operation differential pressure is 2 to 6 inches water gauge.
5. The o/o shall maintain on-site, as a minimum, an inventory of replacement bags that assures compliance with applicable Rules of District Regulation IV.

58. BAGHOUSE (LBH 4) – MDAQMD PERMIT # C000063; consisting of:

A Norblo reverse air baghouse equipped with 220 96" L x 6.25" diameter 16 oz. singed duo-density polyester felt bags of 2880 square feet total area and a 50 hp fan generating 13,200 ACFM (air-to-cloth ratio of 4.6:1). This unit exhausts at greater than ambient temperature (140 deg F). Located on top of Silo 13, serving Cement to Group III Silos System (B000059).

PERMIT CONDITIONS; (UNLESS OTHERWISE STATED ALL CONDITIONS RESULT FROM RULE 204 - PERMIT CONDITIONS; VERSION IN SIP = CARB EX. ORDER G-73, 40 CFR 52.220(C)(39)(II)(B) - 11/09/78 43 FR 52237; CURRENT RULE VERSION = 07/25/77:

1. The owner/operator (o/o) shall operate/maintain this equipment in strict accord with recommendations of the manufacturer and/or sound engineering practices.
2. This equipment shall be operated concurrently with the Group III cement silos (B000059).
3. The o/o shall conduct a minimum program of inspection and maintenance (frequencies may be changed upon successful demonstration to the District that less frequent monitoring is equally effective). The o/o shall maintain current and on-site for five (5) years a log of the following information, which shall be provided to District personnel upon request:
 - a. Pressure differential across the bags (monthly);
 - b. Baghouse stack visible emissions determination using Method 22 (monthly);
 - c. Bags and bag suspension system inspection (quarterly); and,
 - d. Bag replacements and repairs.
4. Within sixty days of initial start-up, the o/o shall conduct a compliance test in accordance with the District Compliance Test Procedural Manual. This test is required to show compliance with permit conditions. The District shall be notified at least 10 working days prior to the test date. The test report shall be submitted to the District within 45 days following the tests.
5. This baghouse shall discharge no more than 0.98 pounds per hour of PM10 at a maximum concentration of 0.01 gr/dSCF at the operating conditions given in the above description.
6. The o/o shall maintain on-site, as a minimum, an inventory of replacement bags that assures compliance with applicable rules of District Regulation IV.

59. AIR POLLUTION CONTROL EQUIPMENT (LBH 6) – MDAQMD PERMIT # C000065; consisting of:

Serving Group 2 Cement Silos (B000059).

Baghouse, SWPC Dwg. D99-M101, 3 Compartments, 216 Bags, 6" dia x 166" 1, 4,524 ft² cloth area, 12,000 cfm, 40 hp - LBH6

PERMIT CONDITIONS; (UNLESS OTHERWISE STATED ALL CONDITIONS RESULT FROM RULE 204 - PERMIT CONDITIONS; VERSION IN SIP = CARB EX. ORDER G-73, 40 CFR 52.220(C)(39)(II)(B) - 11/09/78 43 FR 52237; CURRENT RULE VERSION = 07/25/77:

1. The owner/operator (o/o) shall operate this control equipment in strict accord with the

manufacturer's specification and/or sound engineering principles.

2. The o/o shall maintain a record of repairs and maintenance on this equipment and submit it to the District on request. The record shall be retained for a minimum period of five years.
3. The o/o shall maintain on-site, as a minimum, an inventory of replacement bags that assures compliance with applicable Rules of District Regulation IV.

60. BAGHOUSE (LBH 9) – MDAQMD PERMIT # C001569; consisting of:

Serves Pneumatic Cement Conveyor (B000059).

Dust Collector, Series 20 General Industrial, Gross cloth area: 542 ft², 2450 ACFM at above ambient (140 deg F). A/C ratio: 4.5:1, 7.5 hp induced draft fan. Cement Silo No. 25 - LBH9

PERMIT CONDITIONS; (UNLESS OTHERWISE STATED ALL CONDITIONS RESULT FROM RULE 204 - PERMIT CONDITIONS; VERSION IN SIP = CARB EX. ORDER G-73, 40 CFR 52.220(C)(39)(II)(B) - 11/09/78 43 FR 52237; CURRENT RULE VERSION = 07/25/77:

1. The owner/operator (o/o) shall operate this control equipment in strict accord with the manufacturer's specification and/or sound engineering principles.
2. The o/o shall maintain a record of repairs and maintenance on this equipment and submit it to the District on request. The record shall be retained for a minimum period of five years.
3. The o/o shall maintain on-site, as a minimum, an inventory of replacement bags that assures compliance with applicable Rules of District Regulation IV.
4. The o/o shall conduct a minimum program of inspection and maintenance (frequencies may be changed upon successful demonstration to the District that less frequent monitoring is equally effective). The o/o shall maintain current and on-site for five (5) years a log of the following information, which shall be provided to District personnel upon request:
 - a. Pressure differential across the bags (monthly);
 - b. Baghouse stack visible emissions determination using Method 22 (monthly);
 - c. Bags and bag suspension system inspection (quarterly); and
 - d. Bag replacements and repairs.

5. This baghouse shall discharge no more than 0.18 pounds per hour of PM10 at a maximum concentration of 0.01 gr/dSCF at the operating conditions given in the above description. This equipment does not require a regularly scheduled emission compliance test. However, emission compliance testing may be required at the discretion of the District.
6. This equipment shall be operated concurrently with cement silo 25 covered in District permit B000059.

61. SILO - GROUP I LIME AND CEMENT STORAGE – MDAQMD PERMIT #

T002049; consisting of:

Control: C008246 (LBH10), and C008247 (LBH8), under B000059

Silo: 1 Lime - 34,064 CF

Silo: 2 Lime - 34,064 CF

Silo: 3 Cement - 34,064 CF

Silo: 4 Cement - 34,064 CF

Silo: 5 Cement - 37,800

Silo: 6 Cement - 37,800

PERMIT CONDITIONS; (UNLESS OTHERWISE STATED ALL CONDITIONS RESULT FROM RULE 204 - PERMIT CONDITIONS; VERSION IN SIP = CARB EX. ORDER G-73, 40 CFR 52.220(C)(39)(II)(B) - 11/09/78 43 FR 52237; CURRENT RULE VERSION = 07/25/77:

1. These silos shall not be filled unless they are vented to the functioning air pollution control equipment covered by valid District permits C008246 (Silos 5 and 6), and C008247 (Silos 3 and 4).

62. BAGHOUSE (LBH 10) – MDAQMD PERMIT # C008246; consisting of:

Mikro Pulseaire 81S-10-20 B, Pulse-Jet, airflow of 4710 acfm at ambient temperature, 15 bhp motor, 81 Polyester Bags, 954 ft2 of cloth area and Air-to-Cloth ratio of 4.9:1, maximum emission rate of 0.01 grains PM-10/dscf

PERMIT CONDITIONS; (UNLESS OTHERWISE STATED ALL CONDITIONS RESULT FROM RULE 204 - PERMIT CONDITIONS; VERSION IN SIP = CARB EX. ORDER G-73, 40 CFR 52.220(C)(39)(II)(B) - 11/09/78 43 FR 52237; CURRENT RULE VERSION = 07/25/77:

1. The owner/operator (o/o) shall install, operate and maintain this dust collector in strict accord with those recommendations of the manufacturer/supplier, and sound engineering principles, which produce minimum emissions of air contaminants.
2. The o/o shall institute a program of maintenance which embraces; visible emission determinations performed according to the frequency outlined in the attached summary Table entitled "MACT Standard -- Portland Cement Manufacturing Industry", monthly visual inspections of all associated equipment (inclusive of the bags and their suspensions system) in accordance with 40CFR Part 63.1350, and regular (to be determined with experience with this unit) measurements of the pressure differential across the bags.
3. The o/o shall log all the items in 2 above in addition to bag replacements, repairs and non-scheduled maintenance. The log shall be kept current, on-site for a minimum of 5 years and provided to District personnel on request.
4. The o/o shall maintain an inventory of replacement bags on-site at all times which will ensure compliance with applicable Rules of District Regulation IV.
5. The o/o shall install and maintain a device which measures the pressure differential across the bags if one has not been provided with this unit.
6. This baghouse shall be used to control emissions from Group 1 Cement Silos (Silos 5 and 6).
7. This baghouse shall discharge no more than 0.40 lb/hour at a maximum concentration of 0.01 grains/dscf of PM10 at the operating conditions described above.
8. Opacity measurements shall not exceed 10% aggregated for 3 minutes in any 1-hour period.
9. Regular emissions testing for demonstration of compliance with District rules 404 and 405 are not required, however, an initial source test is required as noted below. The District may require additional emissions testing at its discretion.
10. Within Sixty days of initial start-up, the o/o shall conduct a compliance test in accordance with the District Compliance Test Procedural Manual to verify the PM-10 emission factor of 0.01 grains/DSCF, as submitted with the application. This test is required to show compliance with Permit conditions and Rules 404 and 405. The District shall be notified at least 10 working days prior to the test date. The test report shall be submitted to the District within 45 days following the tests.

63. BAGHOUSE (LBH8) – MDAQMD PERMIT # C008247; consisting of:

FlexKleen 120WSTS-49arr111, Pulse-Jet, stack height of 42 ft, diameter of 2.3 ft, airflow of 4000 acfm, velocity of 16.0 ft/second at ambient temperature, 15 bhp motor, Polyester Bags, 750 ft² of cloth area and Air-to-Cloth ratio of 5.3:1, maximum emission rate of 0.01 grains PM-10/dscf

PERMIT CONDITIONS; (UNLESS OTHERWISE STATED ALL CONDITIONS RESULT FROM RULE 204 - PERMIT CONDITIONS; VERSION IN SIP = CARB EX. ORDER G-73, 40 CFR 52.220(C)(39)(II)(B) - 11/09/78 43 FR 52237; CURRENT RULE VERSION = 07/25/77:

1. The owner/operator (o/o) shall install, operate and maintain this dust collector in strict accord with those recommendations of the manufacturer/supplier, and sound engineering principles, which produce minimum emissions of air contaminants.
2. The o/o shall institute a program of maintenance which embraces; visible emission determinations performed according to the frequency outlined in the attached summary Table entitled "MACT Standard -- Portland Cement Manufacturing Industry", monthly visual inspections of all associated equipment (inclusive of the bags and their suspensions system) in accordance with 40CFR Part 63.1350, and regular (to be determined with experience with this unit) measurements of the pressure differential across the bags.
3. The o/o shall log all the items in 2 above in addition to bag replacements, repairs and non-scheduled maintenance. The log shall be kept current, on-site for a minimum of 5 years and provided to District personnel on request.
4. The o/o shall maintain an inventory of replacement bags on-site at all times which will ensure compliance with applicable Rules of District Regulation IV.
5. The o/o shall install and maintain a device which measures the pressure differential across the bags if one has not been provided with this unit.
6. This baghouse shall be used to control emissions from Group 1 Cement Silos (Silos 3 and 4).
7. This baghouse shall discharge no more than 0.34 lb/hour at a maximum concentration of 0.01 grains/dscf of PM10 at the operating conditions described above.

8. Opacity measurements shall not exceed 10% aggregated for 3 minutes in any 1-hour period.
9. Regular emissions testing for demonstration of compliance with District rules 404 and 405 are not required, however, an initial source test is required as noted below. The District may require additional emissions testing at its discretion.
10. Within Sixty days of initial start-up, the o/o shall conduct a compliance test in accordance with the District Compliance Test Procedural Manual to verify the PM-10 emission factor of 0.01 grains/DSCF, as submitted with the application. This test is required to show compliance with Permit conditions and Rules 404 and 405. The District shall be notified at least 10 working days prior to the test date. The test report shall be submitted to the District within 45 days following the tests.

64. SILO - GROUP II CEMENT STORAGE – MDAQMD PERMIT # T002050;
consisting of:

Supplied by Finish Mills. Control: C000064 (LBH5) under B000059; C000065 (LBH6) under B000059:

Silo 7: 35,976 CF

Silo 8: 35,976 CF

Silo 9: 87,318 CF

Silo 10: 87,318 CF

Silo 11: 87,318 CF

Silo 12: 87,318 CF

Silo A: 9,400 CF

Silo B: 9,400 CF

Silo E: 9,400 CF

Silo F: 9,400 CF

PERMIT CONDITIONS; (UNLESS OTHERWISE STATED ALL CONDITIONS RESULT FROM RULE 204 - PERMIT CONDITIONS; VERSION IN SIP = CARB EX. ORDER G-73, 40 CFR 52.220(C)(39)(II)(B) - 11/09/78 43 FR 52237; CURRENT RULE VERSION = 07/25/77:

1. All 10 silos are served by two dust collectors. Therefore, these silos shall not be filled unless vented to that functional air pollution control equipment covered by valid District permits C000064 and C000065.

65. SILO - GROUP III CEMENT STORAGE – MDAQMD PERMIT # T002051;

consisting of:

Supplied by Finish Mills. Control: C000063 (LBH4) under B000059.

Silo 13: 74,304 CF

Silo 14: 77,914 CF

Silo 15: 81516 CF

Silo 16: 81528 CF

Silo 17: 77,914 CF

Silo 18: 74,297 CF

PERMIT CONDITIONS; (UNLESS OTHERWISE STATED ALL CONDITIONS RESULT FROM RULE 204 - PERMIT CONDITIONS; VERSION IN SIP = CARB EX. ORDER G-73, 40 CFR 52.220(C)(39)(II)(B) - 11/09/78 43 FR 52237; CURRENT RULE VERSION = 07/25/77:

1. All six silos are served by one dust collector. Therefore, these silos shall not be filled unless vented to that functional air pollution control equipment covered by valid District permits C000063.

66. SILO - GROUP IV CEMENT STORAGE – MDAQMD PERMIT # T002052;

consisting of:

Supplied by Finish Mills. Control: All under B000059; C000061 (LBH2) serves all silos; C000062 (LBH3) serves all silos; C001569 (LBH9) serves silo 25, C008565 (LBH11) & C008566 (LBH12) serves Group IV Silos.

*NOTE: If fill line 60-RS-1 is used, Control C000061 shall be operating. If fill line 60-RS-2 is used, Control C000062 shall be operating.

Silo 19; 59,095 CF

Silo 20; 59,095 CF

Silo 21; 62,574 CF

Silo 22; 62,565 CF
Silo 23; 63,404 CF
Silo 24; 62,484 CF
Silo 25 (Lime); 62,476 CF
Silo 26; 63,404 CF
Silo 27; 62,574 CF
Silo 28; 62,574 CF
Silo 29; 59,957 CF
Silo 30; 59,106 CF

PERMIT CONDITIONS; (UNLESS OTHERWISE STATED ALL CONDITIONS RESULT FROM RULE 204 - PERMIT CONDITIONS; VERSION IN SIP = CARB EX. ORDER G-73, 40 CFR 52.220(C)(39)(II)(B) - 11/09/78 43 FR 52237; CURRENT RULE VERSION = 07/25/77:

1. Silo 25 shall not be filled unless vented to that functional air pollution control equipment covered by valid District permit C001569. The other silos shall be vented to the controls listed above under *NOTE.

67. BAGHOUSE (LBH 11) – MDAQMD PERMIT # C008565; consisting of:

A General Industrial Series 20 baghouse, equipped with 542 square feet of bags and a 7.5 induced draft fan generating 2450 ACFM (air-to-cloth ratio of 4.5:1). This unit exhausts at greater than ambient (140 deg F). This unit is located on top of silo 23 and controls the Group IV silos (B000059).

PERMIT CONDITIONS; (UNLESS OTHERWISE STATED ALL CONDITIONS RESULT FROM RULE 204 - PERMIT CONDITIONS; VERSION IN SIP = CARB EX. ORDER G-73, 40 CFR 52.220(C)(39)(II)(B) - 11/09/78 43 FR 52237; CURRENT RULE VERSION = 07/25/77:

1. The owner/operator (o/o) shall operate this control equipment in strict accord with the manufacturer's specification and/or sound engineering principles.
2. The o/o shall maintain a record of repairs and maintenance on this equipment and submit it to the District on request. The record shall be retained for a minimum period of five years.
3. The o/o shall maintain on-site, as a minimum, an inventory of replacement bags that assures compliance with applicable Rules of District Regulation IV.

4. The o/o shall conduct a minimum program of inspection and maintenance (frequencies may be changed upon successful demonstration to the District that less frequent monitoring is equally effective). The o/o shall maintain current and on-site for five (5) years a log of the following information, which shall be provided to District personnel upon request:
 - a. Pressure differential across the bags (monthly);
 - b. Baghouse stack visible emissions determination using Method 22 (monthly);
 - c. Bags and bag suspension system inspection (quarterly); and
 - d. Bag replacements and repairs.
 5. This baghouse shall discharge no more than 0.18 pounds per hour of PM10 at a maximum concentration of 0.01 gr/dSCF at the operating conditions given in the above description. This equipment does not require a regularly scheduled emission compliance test. However, emission compliance testing may be required at the discretion of the District.
 6. This equipment shall be operated concurrently with the Group IV cement silos covered in District permit T002052.
68. **BAGHOUSE (LBH 12) – MDAQMD PERMIT # C008566; consisting of:**
A BHA pulse jet baghouse, equipped with 272 120.5" L x 5.75" diameter 16 oz singed duo-density polyester felt bags (4112 total square feet) and a 50 hp belt drive fan generating 20,000 ACFM (for an air-to-cloth ratio of 4.86:1). This unit exhausts at greater than ambient (140 deg F). This unit is located on top of silo 20 and controls the Group IV cement silos (B000059).

PERMIT CONDITIONS; (UNLESS OTHERWISE STATED ALL CONDITIONS RESULT FROM RULE 204 - PERMIT CONDITIONS; VERSION IN SIP = CARB EX. ORDER G-73, 40 CFR 52.220(C)(39)(II)(B) - 11/09/78 43 FR 52237; CURRENT RULE VERSION = 07/25/77:

1. The owner/operator (o/o) shall operate this control equipment in strict accord with the manufacturer's specification and/or sound engineering principles.
2. The o/o shall maintain a record of repairs and maintenance on this equipment and submit it to the District on request. The record shall be retained for a minimum period of five years.
3. The o/o shall maintain on-site, as a minimum, an inventory of replacement bags that

assures compliance with applicable Rules of District Regulation IV.

4. The o/o shall conduct a minimum program of inspection and maintenance (frequencies may be changed upon successful demonstration to the District that less frequent monitoring is equally effective). The o/o shall maintain current and on-site for five (5) years a log of the following information, which shall be provided to District personnel upon request:
 - a. Pressure differential across the bags (monthly);
 - b. Baghouse stack visible emissions determination using Method 22 (monthly);
 - c. Bags and bag suspension system inspection (quarterly); and
 - d. Bag replacements and repairs.
5. This baghouse shall discharge no more than 0.18 pounds per hour of PM10 at a maximum concentration of 0.01 gr/dSCF at the operating conditions given in the above description. This equipment does not require a regularly scheduled emission compliance test. However, emission compliance testing may be required at the discretion of the District.
6. This equipment shall be operated concurrently with the Group IV cement silos covered in District permit T002052.

GROUP # 3C – FINISH GRINDING (FM) #11

69. **FINISH MILL (KFM11) – MDAQMD PERMIT # B000053; consisting of:**
Controls: C000054 (KBH13) 125 hp; C000055 (KBH15) 40 hp; C000056 (KBH11) 25 hp; C000057 (JBH14) 7.5 hp; C000058 (JBH15) 3 hp; C002011 (KBH14 -product collector); C002012 (KBH12) 75 hp.
The fee base is determined by the basic equipment horsepower which includes the 700 hp associated with the pollution control equipment, KBH14 - KBH14F (C002011) which is deemed an element of the product recovery system.
Clinker Bin - JGH11 (119,680 gallons)
Gypsum Bin - JGH11 (19,942 gallons)
Fringe Bin - JFH11 (19,942 gallons)
Vibrating bin bottom (vibra screw) - Gypsum bin - JGH11VBJ
Vibratory feeder (Eriez) - Gypsum – ABDN
Vibratory feeder (Eriez) - Clinker bin – ABDN
Vibratory feeder (Eriez) - Fringe bin - KWF11VF
Weightbelt feeder (Autoweigh) - Gypsum - KWF11G
Scavenger screw conveyor (under 36BF-17) - KWF11GDC

Weightbelt feeder (Autoweigh) - Clinker - KWF11C
Scavenger screw conveyor (under 36BF-18) - KWF11CDC
Weightbelt feeder (Autoweigh) - Fringe - KWF11F
Scavenger screw conveyor (under 36BF-19) - KWF11FSC
Bucket elevator - Alternate mill feed - KE13
Water spray pump (mill cooling water) - JP8
Ball mill No. 11, 13' x 45' A/C COMPEB - KFM11
Trunnion lube pump - 3 hp - run one at a time - KFM11LP2
Trunnion lube pump - 3 hp - KFM11P1
Trunnion lube pump - 3 hp - run one at a time - KFM11P4
Trunnion lube pump - 3 hp - KFM11P3
Pinion and gear lube pump - KFM11P5
Air Compressor - For Airflex mill clutch - KFM11DC
Airslide blower - For KAC8 - KB10
Airslide blower - For KAC6/7 and KAC14/17 - KB11
Bucket elevator - Mill discharge - KE14
Cement pump F-K 200MM - LP9
Rotary compressor Fuller No. 350 - LC9
Rotary compressor Fuller No. 350 - LC10
Drag Conveyor - KDC1
Drag Conveyor - KDC2
Bucket Elevator - KE11
Bucket Elevator - KE12
Tramp iron separator (Eriez) - KRP11MS
Roller press - Koppert - KRP11
Feeder for roll press
Hydraulic system for roll press, 2 @ 1.5 hp
Cooling system rolls & bearings - Roll press
Bearing lube pump
Coupling lube pump
Belt conveyor - KBC1
Belt conveyor - KBC2
Air separator FLS Sepax model - KAS11
Oil cooler for Sepax
Blower - Airslide fluidizing - for KAC10-11-12 - KB13
Blower - Airslide fluidizing - For KAC13 - KB14
Dust collector - No. 11 finish mill product - KBH14
Fan - Exhauster 11.F.M. product collector - KBH14F
Feeder - Sepax rejects recycle to roll press
Airlock - Rotary Sepax dropouts - KAS11

Screw CNV (KE12 to KRP11) - KRP11SC
Sampler - Gustafson Model D - KFM11SC

PERMIT CONDITIONS; (UNLESS OTHERWISE STATED ALL CONDITIONS
RESULT FROM RULE 204 - PERMIT CONDITIONS; VERSION IN SIP = CARB EX.
ORDER G-73, 40 CFR 52.220(C)(39)(II)(B) - 11/09/78 43 FR 52237; CURRENT RULE
VERSION = 07/25/77:

1. All of the controls listed above shall be maintained in operable condition and operating as per the schedule below:
Finish Mill Operations - Permit Numbers, which must be operating
Mill Running - C000054; C000055; C000056; C002011; C002012
Mill & Roll Press Running - C000054; C000055; C002011; C002012
Filling Clinker Bin - C000057
Filling Gypsum Bin - C000058
Filling Fringe Bin and/or the Alternate Bin Fill System via Elevator - C000056

70. AIR POLLUTION CONTROL EQUIPMENT (KBH 13) – MDAQMD PERMIT # C000054; consisting of:

Serving Finish Mill No. 11 (B000053)
Baghouse, ICA Pulse Clean model 625-7, 280 Filter Tubes, 125 hp Rees Fan, 4,375 ft²,
25,000 cfm - KBH 13

PERMIT CONDITIONS; (UNLESS OTHERWISE STATED ALL CONDITIONS
RESULT FROM RULE 204 - PERMIT CONDITIONS; VERSION IN SIP = CARB EX.
ORDER G-73, 40 CFR 52.220(C)(39)(II)(B) - 11/09/78 43 FR 52237; CURRENT RULE
VERSION = 07/25/77:

1. The owner/operator (o/o) shall operate this control equipment in strict accord with the manufacturer's specification and/or sound engineering principles.
2. The o/o shall maintain a record of repairs and maintenance on this equipment and submit it to the District on request. The record shall be retained for a minimum period of five years.
3. The o/o shall maintain on-site, as a minimum, an inventory of replacement bags that assures compliance with applicable Rules of District Regulation IV.

71. AIR POLLUTION CONTROL EQUIPMENT (KBH 15) – MDAQMD PERMIT # C000055; consisting of:

Serving Finish Mill No. 11 (B000053).

Baghouse, ICA Pulse Clean model 625-2, 80 Filter Tubes, 40 hp Rees Fan, 1,250 ft², 7,000 cfm - KBH15

PERMIT CONDITIONS; (UNLESS OTHERWISE STATED ALL CONDITIONS RESULT FROM RULE 204 - PERMIT CONDITIONS; VERSION IN SIP = CARB EX. ORDER G-73, 40 CFR 52.220(C)(39)(II)(B) - 11/09/78 43 FR 52237; CURRENT RULE VERSION = 07/25/77:

1. The owner/operator (o/o) shall operate this control equipment in strict accord with the manufacturer's specification and/or sound engineering principles.
2. The o/o shall maintain a record of repairs and maintenance on this equipment and submit it to the District on request. The record shall be retained for a minimum period of five years.
3. The o/o shall maintain on-site, as a minimum, an inventory of replacement bags that assures compliance with applicable Rules of District Regulation IV.

72. AIR POLLUTION CONTROL EQUIPMENT (KBH 11) – MDAQMD PERMIT # C000056; consisting of:

Serving Clinker Feed System, Elevators (B000053).

Baghouse, ICA Pulse Clean model 625-2 (III), 80 Filter Tubes, 25 hp Exhaust Fan, 1,250 ft², 6,600 cfm - KBH11

PERMIT CONDITIONS; (UNLESS OTHERWISE STATED ALL CONDITIONS RESULT FROM RULE 204 - PERMIT CONDITIONS; VERSION IN SIP = CARB EX. ORDER G-73, 40 CFR 52.220(C)(39)(II)(B) - 11/09/78 43 FR 52237; CURRENT RULE VERSION = 07/25/77:

1. The owner/operator (o/o) shall operate this control equipment in strict accord with the manufacturer's specification and/or sound engineering principles.
2. The o/o shall maintain a record of repairs and maintenance on this equipment and submit it to the District on request. The record shall be retained for a minimum period of five years.

3. The o/o shall maintain on-site, as a minimum, an inventory of replacement bags that assures compliance with applicable Rules of District Regulation IV.

73. AIR POLLUTION CONTROL EQUIPMENT (JBH 14) – MDAQMD PERMIT # C000057; consisting of:

Serving Clinker Feed System Bins (B000053).

Baghouse, Mikropul Pulse Jet dust collector, 424 ft², 1,500 acfm, 7.5 hp - JBH14

PERMIT CONDITIONS; (UNLESS OTHERWISE STATED ALL CONDITIONS RESULT FROM RULE 204 - PERMIT CONDITIONS; VERSION IN SIP = CARB EX. ORDER G-73, 40 CFR 52.220(C)(39)(II)(B) - 11/09/78 43 FR 52237; CURRENT RULE VERSION = 07/25/77:

1. The owner/operator (o/o) shall operate this control equipment in strict accord with the manufacturer's specification and/or sound engineering principles.
2. The o/o shall maintain a record of repairs and maintenance on this equipment and submit it to the District on request. The record shall be retained for a minimum period of five years.
3. The o/o shall maintain on-site, as a minimum, an inventory of replacement bags that assures compliance with applicable Rules of District Regulation IV.

74. AIR POLLUTION CONTROL EQUIPMENT (JBH 15) – MDAQMD PERMIT # C000058; consisting of:

Serving Gypsum Feed System Bins (B000053).

Baghouse, ICA Pulse Clean model 5-9, nine Filter Tubes, 65 ft² cloth area, 400 cfm, 3 hp - JBH15

PERMIT CONDITIONS; (UNLESS OTHERWISE STATED ALL CONDITIONS RESULT FROM RULE 204 - PERMIT CONDITIONS; VERSION IN SIP = CARB EX. ORDER G-73, 40 CFR 52.220(C)(39)(II)(B) - 11/09/78 43 FR 52237; CURRENT RULE VERSION = 07/25/77:

1. The owner/operator (o/o) shall operate this control equipment in strict accord with the manufacturer's specification and/or sound engineering principles.
2. The o/o shall maintain a record of repairs and maintenance on this equipment and submit

it to the District on request. The record shall be retained for a minimum period of five years.

3. The o/o shall maintain on-site, as a minimum, an inventory of replacement bags that assures compliance with applicable Rules of District Regulation IV.

75. AIR POLLUTION CONTROL EQUIPMENT (KBH 14) – MDAQMD PERMIT # C002011; consisting of:

Serving Finish Mill (KFM-11) (B000053).

Baghouse: KBH14 Sepax classifier product recovery, Mikropul pulse jet model 680K-12-30TR 28. Cloth area: 28,824 ft². A/C ratio: 3.98 @ 190 degrees F. Air Flow Rate: 115,000 cfm.

Fan: Buffalo Forge model 1460-L-25 ID, @ 700 hp

PERMIT CONDITIONS; (UNLESS OTHERWISE STATED ALL CONDITIONS RESULT FROM RULE 204 - PERMIT CONDITIONS; VERSION IN SIP = CARB EX. ORDER G-73, 40 CFR 52.220(C)(39)(II)(B) - 11/09/78 43 FR 52237; CURRENT RULE VERSION = 07/25/77:

1. The owner/operator (o/o) shall operate this particulate control/process stream equipment in strict accord with the manufacturer's specifications and/or sound engineering principles. The operating instructions shall be immediately available for use by the operator and made available to the District upon request.
2. The o/o shall maintain a log of all inspections, repairs, and maintenance on this equipment and submit it to the District upon request. The log shall be kept for a minimum period of five years.
3. The baghouse shall be fitted with an airlock on each material discharge port.
4. The o/o shall maintain on-site, as a minimum, an inventory of replacement bags that assures compliance with applicable Rules of District Regulation IV.

76. AIR POLLUTION CONTROL EQUIPMENT (KBH 12) – MDAQMD PERMIT # C002012; consisting of:

Serving Finish Mill (KFM 11) (B000053).

Baghouse, Mikropul Pulse Jet model 2385-12-20TR. Cloth area: 3,364 ft². A/C Ratio: 5.9 @ 20 degrees F. Air flow rate: 20,000 cfm - KBH12

Buffalo Forge model 600 BL @ 75 hp

PERMIT CONDITIONS; (UNLESS OTHERWISE STATED ALL CONDITIONS RESULT FROM RULE 204 - PERMIT CONDITIONS; VERSION IN SIP = CARB EX. ORDER G-73, 40 CFR 52.220(C)(39)(II)(B) - 11/09/78 43 FR 52237; CURRENT RULE VERSION = 07/25/77:

1. The owner/operator (o/o) shall operate this particulate control/process stream equipment in strict accord with the manufacturer's specifications and/or sound engineering principles. The operating instructions shall be immediately available for use by the operator and made available to the District upon request.
2. The o/o shall maintain a log of all inspections, repairs, and maintenance on this equipment and submit it to the District upon request. The log shall be kept for a minimum period of five years.
3. The baghouse shall be fitted with an airlock on each material discharge port.
4. The o/o shall maintain on-site, as a minimum, an inventory of replacement bags that assures compliance with applicable Rules of District Regulation IV.

GROUP # 3D – FINISH GRINDING (FM #12)

77. **FINISH MILL – (KFM –12) – MDAQMD PERMIT # B001093; consisting of:**
Control: C001285 (KBH17); C001286 (KBH18); C001279 (KBH16); C008660 (KBH 19)
Bin Vibrator - JTS2VB1
Weigh Belt Feeders (2 @ 4 hp ea.) - KWF12C & G
Belt Conveyor (15 & 10 hp) - KBC3 & 4
Screw Conveyor, Dust Return System - KBH1BSC
Bucket Elevator to Finish Mill - KE15
Bucket Elevator from Finish Mill - KE16
Finish Mill No. 12 Ball -- KFM12
Airslide blower - KAC18
Air Separator - KAS12:
Drive
Fan

Lubricator
Cement Cooler - 42-CCC-2
Pneumatic Conveyor - 42P11
Roll Press
Cement Pump LP11
Fan-exhaust KBH 19
FM 12 Product Collector

PERMIT CONDITIONS; (UNLESS OTHERWISE STATED ALL CONDITIONS RESULT FROM RULE 204 - PERMIT CONDITIONS; VERSION IN SIP = CARB EX. ORDER G-73, 40 CFR 52.220(C)(39)(II)(B) - 11/09/78 43 FR 52237; CURRENT RULE VERSION = 07/25/77:

1. Operation of this equipment shall be conducted in compliance with data and specifications submitted with the application under which this permit is issued unless otherwise noted below.
2. This equipment shall not be operated unless it is vented to functioning air pollution control equipment (C001285, C001286, and C001279) and C008660.

78. BAGHOUSE (KBH 16) – MDAQMD PERMIT # C001279; consisting of:

Serves (KfM - 12) (B001093).

Baghouse, FM-12, Flex Kleen model 120 WRTC-48 (III), 734 ft² cloth area, 3,500 cfm, 25 hp - KBH 16

PERMIT CONDITIONS; (UNLESS OTHERWISE STATED ALL CONDITIONS RESULT FROM RULE 204 - PERMIT CONDITIONS; VERSION IN SIP = CARB EX. ORDER G-73, 40 CFR 52.220(C)(39)(II)(B) - 11/09/78 43 FR 52237; CURRENT RULE VERSION = 07/25/77:

1. Particulate emissions shall not exceed a discharge grain loading of 0.02 gr/ACF.
2. The owner/operator (o/o) shall operate this control equipment in strict accord with the manufacturer's specification and/or sound engineering principles.
3. The o/o shall maintain a record of repairs and maintenance on this equipment and submit it to the District on request. The record shall be retained for a minimum period of five years.

4. The o/o shall maintain on-site, as a minimum, an inventory of replacement bags that assures compliance with applicable Rules of District Regulation IV.

79. BAGHOUSE (KBH 17) – MDAQMD PERMIT # C001285; consisting of:

Serves (KFM - 12) (B001093).

Baghouse, FM-12, Flex Kleen model 120 WRTC-48 (III), 734 ft² cloth area, 3,500 cfm, 25 hp - KBH17

PERMIT CONDITIONS; (UNLESS OTHERWISE STATED ALL CONDITIONS RESULT FROM RULE 204 - PERMIT CONDITIONS; VERSION IN SIP = CARB EX. ORDER G-73, 40 CFR 52.220(C)(39)(II)(B) - 11/09/78 43 FR 52237; CURRENT RULE VERSION = 07/25/77:

1. Particulate emissions shall not exceed a discharge grain loading of 0.02 gr/ACF.
2. The owner/operator (o/o) shall operate this control equipment in strict accord with the manufacturer's specification and/or sound engineering principles.
3. The o/o shall maintain a record of repairs and maintenance on this equipment and submit it to the District on request. The record shall be retained for a minimum period of five years.
4. The o/o shall maintain on-site, as a minimum, an inventory of replacement bags that assures compliance with applicable Rules of District Regulation IV.

80. BAGHOUSE (KBH 18) – MDAQMD PERMIT # C001286; consisting of:

Serves (KFM - 12) (B001093).

Dust Collector, MikroPul pulse jet type with (480) 4.5" dia x 10' felted polyester bags, 5,654 sq cloth area, 37,400 cfm solvent-ventec GP165 S1A exhaustor 42F34, 201, 200 hp - KBH18

PERMIT CONDITIONS; (UNLESS OTHERWISE STATED ALL CONDITIONS RESULT FROM RULE 204 - PERMIT CONDITIONS; VERSION IN SIP = CARB EX. ORDER G-73, 40 CFR 52.220(C)(39)(II)(B) - 11/09/78 43 FR 52237; CURRENT RULE VERSION = 07/25/77:

1. Particulate emissions shall not exceed a discharge grain loading of 0.02 gr/ACF.

2. The owner/operator (o/o) shall operate this control equipment in strict accord with the manufacturer's specification and/or sound engineering principles.
3. The o/o shall maintain a record of repairs and maintenance on this equipment and submit it to the District on request. The record shall be retained for a minimum period of five years.
4. The o/o shall maintain on-site, as a minimum, an inventory of replacement bags that assures compliance with applicable Rules of District Regulation IV.

81. BAGHOUSE- KBH19, WHICH SERVES FINISH MILL #12 SKS AIR SEPARATOR PROCESS UNDER DISTRICT PERMIT B001093, - MDAQMD PERMIT # C008660; consisting of:

Amerex 5408, pulse type, model (2) RP-12-817D6 (19X43), 129,470 acfm, 700hp Robinson 5399 fan, with 1634- 16 oz Polyester Bags operating at 162 degrees F, and with an Air-to-Cloth Ratio of 4.2:1.

PERMIT CONDITIONS; (UNLESS OTHERWISE STATED ALL CONDITIONS RESULT FROM RULE 204 - PERMIT CONDITIONS; VERSION IN SIP = CARB EX. ORDER G-73, 40 CFR 52.220(C)(39)(II)(B) - 11/09/78 43 FR 52237; CURRENT RULE VERSION = 07/25/77:

1. Operation of this baghouse shall meet all applicable sections of the Federal Portland Cement Manufacturing Industry MACT standard, 40 CFR 63 Subpart LLL, including but not necessarily limited to those sections referenced herein. In those instances where the conditions below conflict with the MACT standard, the MACT standard shall govern.
2. The owner/operator shall monitor opacity by conducting daily visual emissions observations in accordance with the procedures of Method 22 of 40 CFR 60 appendix A. The duration of the Method 22 test shall be six minutes. If visible emissions are observed, the owner/operator must:
 - a) Initiate, within one-hour, the corrective actions specified in the site specific operating and maintenance plan developed in accordance with 40 CFR 63.1350(a)(1) and (a)(2); and
 - b) Within 24 hours of the end of the Method 22 test in which visible emissions were observed conduct a follow-up Method 22 test. If visible emissions are observed again, conduct a visual opacity test in accordance with Method 9 of 40 CFR 60 appendix A. When required, the duration of the Method 9 test shall be thirty minutes.
4. Performance testing referenced in condition 3 shall be conducted in accordance with EPA

Method 5 to verify the PM-10 emission factor of 0.01 grains/DSCF as submitted with the application. The District shall be notified at least 10 working days prior to the test date.

5. The owner/operator (o/o) shall install, operate and maintain this dust collector in strict accord with those recommendations of the manufacturer/supplier, and sound engineering principles, which produce minimum emissions of air contaminants.
6. The o/o shall institute a program of maintenance which embraces; visible emission determinations performed according to the frequency outlined in the attached summary Table entitled "MACT Standard -- Portland Cement Manufacturing Industry", monthly visual inspections of all associated equipment (inclusive of the bags and their suspensions system) in accordance with 40CFR Part 63.1350, and regular (to be determined with experience with this unit) measurements of the pressure differential across the bags.
7. The o/o shall log all applicable items referenced in condition 6, and all daily visible emissions observations, and any Method 9 tests conducted. The log shall also include bag replacements, repairs and non-scheduled maintenance information. The log shall be kept current for 5 years, and on-site for a minimum of 2 years and provided to District personnel on request.
8. The o/o shall maintain an inventory of replacement bags on-site at all times which will ensure compliance with applicable Rules of District Regulation IV.
9. The o/o shall install and maintain a device which measures the pressure differential across the bags if one has not been provided with this unit.
10. This baghouse shall operate concurrently with the Finish Mill #12 SKS Air Separator Process under district permit B001093.
11. This baghouse shall discharge no more than 9.42 lb/hour of PM-10 at a maximum concentration of 0.01 grain/dscf PM-10 operating at the conditions described above.
12. The o/o shall comply with District Rule 430, Breakdown Provisions, with regard to equipment malfunctions, which result in excess emissions.

GROUP #4 – SHIPPING

82. **CEMENT, BULK LOADOUT – MDAQMD PERMIT # B001683; consisting of:**

Group 1 Silos. Control: C000068 (MBH2) 10 hp
Screw Conveyors @ 20 hp ea (MSC1, 2)
Elevator (ME1)

PERMIT CONDITIONS; (UNLESS OTHERWISE STATED ALL CONDITIONS
RESULT FROM RULE 204 - PERMIT CONDITIONS; VERSION IN SIP = CARB EX.
ORDER G-73, 40 CFR 52.220(C)(39)(II)(B) - 11/09/78 43 FR 52237; CURRENT RULE
VERSION = 07/25/77:

1. This equipment shall not be operated unless it is vented to functioning air pollution control equipment covered by valid District permit C000068.

83. AIR POLLUTION CONTROL EQUIPMENT (MBH 2) – MDAQMD PERMIT # C000068; consisting of:

Serving Cement Shipping (B001683).Baghouse, Norblo No. 112-AS, 1,325 ft2 cloth area, 2,300 cfm, 10 hp - MBH2

PERMIT CONDITIONS; (UNLESS OTHERWISE STATED ALL CONDITIONS
RESULT FROM RULE 204 - PERMIT CONDITIONS; VERSION IN SIP = CARB EX.
ORDER G-73, 40 CFR 52.220(C)(39)(II)(B) - 11/09/78 43 FR 52237; CURRENT RULE
VERSION = 07/25/77:

1. The owner/operator (o/o) shall operate this control equipment in strict accord with the manufacturer's specification and/or sound engineering principles.
2. The o/o shall maintain a record of repairs and maintenance on this equipment and submit it to the District on request. The record shall be retained for a minimum period of five years.
3. The o/o shall maintain on-site, as a minimum, an inventory of replacement bags that assures compliance with applicable Rules of District Regulation IV.

84. TRANSFER EQUIPMENT – MDAQMD PERMIT # B001784; consisting of:

From Cement Storage to Truck Loading. Control: C000075 (MBH6) 20 hp.
Screw Conveyor - MSC2
Elevator – ME2
Rotary Screen – MRS1

PERMIT CONDITIONS; (UNLESS OTHERWISE STATED ALL CONDITIONS RESULT FROM RULE 204 - PERMIT CONDITIONS; VERSION IN SIP = CARB EX. ORDER G-73, 40 CFR 52.220(C)(39)(II)(B) - 11/09/78 43 FR 52237; CURRENT RULE VERSION = 07/25/77:

1. This equipment shall not be operated unless it is vented to functioning air pollution control equipment covered by valid District permit C000075.

85. AIR POLLUTION CONTROL EQUIPMENT (MBH 6) – MDAQMD PERMIT # C000075; consisting of:

Serving Bulk Truck Cement Shipping (B001784).
Baghouse, Norblo, 2,944 ft² cloth area, 6,000 cfm, 20 hp - MBH6

PERMIT CONDITIONS; (UNLESS OTHERWISE STATED ALL CONDITIONS RESULT FROM RULE 204 - PERMIT CONDITIONS; VERSION IN SIP = CARB EX. ORDER G-73, 40 CFR 52.220(C)(39)(II)(B) - 11/09/78 43 FR 52237; CURRENT RULE VERSION = 07/25/77:

1. The owner/operator (o/o) shall operate this control equipment in strict accord with the manufacturer's specification and/or sound engineering principles.
2. The o/o shall maintain a record of repairs and maintenance on this equipment and submit it to the District on request. The record shall be retained for a minimum period of five years.
3. The o/o shall maintain on-site, as a minimum, an inventory of replacement bags that assures compliance with applicable Rules of District Regulation IV.

86. SHIPPING – BULK CEMENT – MDAQMD PERMIT # B001640; consisting of:

Groups I and II Silos. Control: C001684 (MBH1) 15 hp.
Screw Conveyors - MSCS4, 5, 10
Air Slide – MG2AC1

PERMIT CONDITIONS; (UNLESS OTHERWISE STATED ALL CONDITIONS RESULT FROM RULE 204 - PERMIT CONDITIONS; VERSION IN SIP = CARB EX. ORDER G-73, 40 CFR 52.220(C)(39)(II)(B) - 11/09/78 43 FR 52237; CURRENT RULE VERSION = 07/25/77:

1. This equipment shall not be operated unless it is vented to functioning air pollution control equipment covered by valid District permit C001684.

87. BAGHOUSE (MBH 1) – MDAQMD PERMIT # C001684; consisting of:

Serves Bulk Loadout System (B001640).

Baghouse, Mikropul model 81S-8TR, 763 ft², 470 cfm, 15 hp - MBH1

PERMIT CONDITIONS; (UNLESS OTHERWISE STATED ALL CONDITIONS RESULT FROM RULE 204 - PERMIT CONDITIONS; VERSION IN SIP = CARB EX. ORDER G-73, 40 CFR 52.220(C)(39)(II)(B) - 11/09/78 43 FR 52237; CURRENT RULE VERSION = 07/25/77:

1. Particulate emissions shall not exceed a discharge grain loading of 0.02 gr/ACF.
2. The owner/operator (o/o) shall operate this control equipment in strict accord with the manufacturer's specification and/or sound engineering principles.
3. The o/o shall maintain a record of repairs and maintenance on this equipment and submit it to the District on request. The record shall be retained for a minimum period of five years.
4. The o/o shall maintain on-site, as a minimum, an inventory of replacement bags that assures compliance with applicable Rules of District Regulation IV.

88. CEMENT WITHDRAWAL SYSTEM – NORTH PACKOUT – MDAQMD PERMIT # B001480; consisting of:

Control: C001481 (NBH1) 15 hp.

Silo Withdrawal Pneumatic Gravity Conveyors (Airslides), operated one at a time.

Capacity: 75-ton/hr ea. - NAC1, 2, 3, 4

Aeration Blower (Aerzen), 432 cfm (Free Air), @ 4.3 psig - NSA2B1

Aeration Blowers (Aerzen), @ 20 hp ea, 280 cfm (Free Air) @ 8.7 psig - NSA2B2, B5

Pneumatic Conveying System for Cement Transport (Fuller-Kinyon), 100 hp "M" type pump. Oil-free air cooled compressor (IBAU) with 100 hp drive and 0.75 Cooling Fan - NP1

Alleviator Cyclone - NA8

Screen, Vibratory (Haver-Niagara), 1,000 x 2,000 mm Pack Bin (East), 750 ft³ - NPM2VS

PERMIT CONDITIONS; (UNLESS OTHERWISE STATED ALL CONDITIONS RESULT FROM RULE 204 - PERMIT CONDITIONS; VERSION IN SIP = CARB EX. ORDER G-73, 40 CFR 52.220(C)(39)(II)(B) - 11/09/78 43 FR 52237; CURRENT RULE VERSION = 07/25/77:

1. This equipment shall not be operated unless it is vented to functioning air pollution control equipment covered by valid District permit C001481.

89. BAGHOUSE (NBH 1)-MDAQMD PERMIT # C001481; consisting of:

Serves Cement Withdrawal System (North) (B001480).

Baghouse, Flex Kleen model 120 BUTC-16 (III) 245 ft2, 1,000 cfm, 15.75 hp - NBH1

PERMIT CONDITIONS; (UNLESS OTHERWISE STATED ALL CONDITIONS RESULT FROM RULE 204 - PERMIT CONDITIONS; VERSION IN SIP = CARB EX. ORDER G-73, 40 CFR 52.220(C)(39)(II)(B) - 11/09/78 43 FR 52237; CURRENT RULE VERSION = 07/25/77:

1. Particulate emissions shall not exceed a discharge grain loading of 0.02 gr/ACF.
2. The owner/operator (o/o) shall operate this control equipment in strict accord with the manufacturer's specification and/or sound engineering principles.
3. The o/o shall maintain a record of repairs and maintenance on this equipment and submit it to the District on request. The record shall be retained for a minimum period of five years.
4. The o/o shall maintain on-site, as a minimum, an inventory of replacement bags that assures compliance with applicable Rules of District Regulation IV.

90. PACKAGING SYSTEM – MDAQMD PERMIT # B001484; consisting of:

Line "A" (West). Control: C001485 (NBH3) 60.75 hp

Rotary Air Locks, Packer - NPM1RF1

Feed, Haver units in parallel @ 1.5 hp ea - NPM1RF2

Feed, Haver units in parallel @ 1.5 hp ea - NPM1RF2

Bag Packing Machine, inline, 4 spout, Haver & Boecker type 5054-4BB, 30 hp - NPM1

Packer Takeaway Conveyor, flat wire mesh type, 2 hp - NPM1BC1

Belt Conveyor, flat, 1.5 hp - NPM1BC2

Bag Cleaning Conveyor Station, Beumer "Torture Chamber" type, @ 3 hp, 1,000 cfm

(Free Air) 19.5" W.G. Blower - NPM1CS
Live Roller Conveyor - NPM1RC1
Check Weight Scale Belt, Bockels - NPM1WB
Live Roller Conveyor - NPM1RC2
Rejector Belt Conveyor - NPM1BC3
Bag Flattener - NPM1LBF & NPM1BVF
Packing Conveyor - NBP1PSC
Palletizer, Moellers model PLS-1 - NBP1
Recycle Screw Conveyor - NPM1SC
Recycle Pneumatic Conveying System, 30 hp, 365 cfm - NPM1RP
(Free Air) Blower, 10.1 psig - NPM1RPB

PERMIT CONDITIONS; (UNLESS OTHERWISE STATED ALL CONDITIONS
RESULT FROM RULE 204 - PERMIT CONDITIONS; VERSION IN SIP = CARB EX.
ORDER G-73, 40 CFR 52.220(C)(39)(II)(B) - 11/09/78 43 FR 52237; CURRENT RULE
VERSION = 07/25/77:

1. This equipment shall not be operated unless it is vented to functioning air pollution control equipment covered by valid District permit C001485.

91. BAGHOUSE (NBH 3) – MDAQMD PERMIT # C001485; consisting of:

Serves Package System "A" (B001484).
Baghouse, Flex Kleen model 120 WRTC-132 (III), 2,020 ft², 12,000 cfm, 60 hp, 0.75hp
Rotary Airlock - NBH3

PERMIT CONDITIONS; (UNLESS OTHERWISE STATED ALL CONDITIONS
RESULT FROM RULE 204 - PERMIT CONDITIONS; VERSION IN SIP = CARB EX.
ORDER G-73, 40 CFR 52.220(C)(39)(II)(B) - 11/09/78 43 FR 52237; CURRENT RULE
VERSION = 07/25/77:

1. Particulate emissions shall not exceed a discharge grain loading of 0.02 gr/ACF.
2. The owner/operator (o/o) shall operate this control equipment in strict accord with the manufacturer's specification and/or sound engineering principles.
3. The o/o shall maintain a record of repairs and maintenance on this equipment and submit it to the District on request. The record shall be retained for a minimum period of five years.
4. The o/o shall maintain on-site, as a minimum, an inventory of replacement bags that

assures compliance with applicable Rules of District Regulation IV.

92. CEMENT WITHDRAWAL SYSTEM – MDAQMD PERMIT # B001482; consisting of:

South Packout. Control: C001483 (NBH2) 15.75 hp
Silo Withdrawal Pneumatic Gravity Conveyors (Airslides), operated one at a time.
Capacity: 75 ton/hr ea - NAC 5, 6, 7, 8
Aeration Blower (Aerzen), 432 cfm (Free Air), @ 4.3 psig - NSA2B3
Aeration Blowers (Aerzen), @ 20 hp ea, 280 cfm (Free Air) @ 8.7 psig - NSA2B4, B6
Aeration Blowers (IBAU), @ 3 hp ea, 210 cfm (Free Air) @ 0.9 psig - NB9, 10
Pneumatic Conveying System for Cement Transport (Fuller-Kinyon), 100 hp "M" type pump. Oil-free air cooled compressor (IBAU) with 100 hp drive and 0.75 Cooling Fan - NP2
Alleviator Cyclone - NA7
Screen, Vibratory (Haver-Niagara), 1,000 x 2,000 mm Pack Bin (East), 750 ft³ - PM1VS

PERMIT CONDITIONS; (UNLESS OTHERWISE STATED ALL CONDITIONS RESULT FROM RULE 204 - PERMIT CONDITIONS; VERSION IN SIP = CARB EX. ORDER G-73, 40 CFR 52.220(C)(39)(II)(B) - 11/09/78 43 FR 52237; CURRENT RULE VERSION = 07/25/77:

93. BAGHOUSE (NBH 2) – MDAQMD PERMIT # C001483; consisting of:

Serves Cement Withdrawal System(South) (B001482).
Baghouse, Flex Kleen model 120 BUTC-16 (III) 245 ft², 1,000 cfm, 15.75 hp - NBH2

PERMIT CONDITIONS; (UNLESS OTHERWISE STATED ALL CONDITIONS RESULT FROM RULE 204 - PERMIT CONDITIONS; VERSION IN SIP = CARB EX. ORDER G-73, 40 CFR 52.220(C)(39)(II)(B) - 11/09/78 43 FR 52237; CURRENT RULE VERSION = 07/25/77:

1. Particulate emissions shall not exceed a discharge grain loading of 0.02 gr/ACF.
2. The owner/operator (o/o) shall operate this control equipment in strict accord with the manufacturer's specification and/or sound engineering principles.
3. The o/o shall maintain a record of repairs and maintenance on this equipment and submit it to the District on request. The record shall be retained for a minimum period of five years.

4. The o/o shall maintain on-site, as a minimum, an inventory of replacement bags that assures compliance with applicable Rules of District Regulation IV.

94. PACKAGING SYSTEM – MDAQMD PERMIT # B001486; consisting of:

Line "B" (East). Control: C001487 (NBH4) 60.75 hp.
Rotary Air Locks, Packer - NPM2RF1
Feed, Haver units in parallel @ 1.5 hp ea - NPM2RF2
Bag Packing Machine, inline, 4 spout, Haver & Boecker type 5054-4BB, 30 hp - NPM2
Packer Takeaway Conveyor, flat wire mesh type, 2 hp - NPM2BC1
Belt Conveyor, flat, 1.5 hp - NPM2BC2
Bag Cleaning Conveyor Station, Beumer "Torture Chamber" type, @ 3 hp, 1,000 cfm (Free Air) 19.5" W.G. Blower - NPM2CS
Live Roller Conveyor - NPM2RC1
Check Weight Scale Belt, Bockels - NPM2WB
Live Roller Conveyor - NPM2RC2
Rejector Belt Conveyor - NPM2BC3
Bag Flattener - NPM2LBF & NPM2VBF
Packing Conveyor - NPM2PSC
Palletizer, Moellers model PLS-1 - NBP2
Recycle Screw Conveyor - NPM2SC
Recycle Pneumatic Conveying System, 30 hp, 365 cfm (Free Air) 10.1 psig Blower - NPM2RP

PERMIT CONDITIONS; (UNLESS OTHERWISE STATED ALL CONDITIONS RESULT FROM RULE 204 - PERMIT CONDITIONS; VERSION IN SIP = CARB EX. ORDER G-73, 40 CFR 52.220(C)(39)(II)(B) - 11/09/78 43 FR 52237; CURRENT RULE VERSION = 07/25/77:

1. This equipment shall not be operated unless it is vented to functioning air pollution control equipment covered by valid District permit C001487.

95. BAGHOUSE (NBH 4) – MDAQMD PERMIT # C001487; consisting of:

Serves Package System "B" (East) (B001486).
Baghouse, Flex Kleen model 120 WRTC-132 (III), 2,020 ft², 12,000 cfm, 60 hp, 0.75 hp
Rotary Airlock - NBH4

PERMIT CONDITIONS; (UNLESS OTHERWISE STATED ALL CONDITIONS

RESULT FROM RULE 204 - PERMIT CONDITIONS; VERSION IN SIP = CARB EX.
ORDER G-73, 40 CFR 52.220(C)(39)(II)(B) - 11/09/78 43 FR 52237; CURRENT RULE
VERSION = 07/25/77:

1. Particulate emissions shall not exceed a discharge grain loading of 0.02 gr/ACF.
2. The owner/operator (o/o) shall operate this control equipment in strict accord with the manufacturer's specification and/or sound engineering principles.
3. The o/o shall maintain a record of repairs and maintenance on this equipment and submit it to the District on request. The record shall be retained for a minimum period of five years.
4. The o/o shall maintain on-site, as a minimum, an inventory of replacement bags that assures compliance with applicable Rules of District Regulation IV.

96. SHIPPING, BULK CEMENT – MDAQMD PERMIT # B001954; consisting of:

Group 3 Silos. Control: C004865 (MBH3) 40 hp.

Air Slide System

Bucket Elevator – ME6

Rotary Screen – MRS3

Air Slide System

PERMIT CONDITIONS; (UNLESS OTHERWISE STATED ALL CONDITIONS
RESULT FROM RULE 204 - PERMIT CONDITIONS; VERSION IN SIP = CARB EX.
ORDER G-73, 40 CFR 52.220(C)(39)(II)(B) - 11/09/78 43 FR 52237; CURRENT RULE
VERSION = 07/25/77:

1. This equipment shall not be operated unless it is vented to functioning air pollution control equipment covered by valid District permit C004865.

97. BAGHOUSE (MBH3) – MDAQMD PERMIT # C004865; consisting of:

Serving the Group 3 silos bulkloading station (B001954) with the following specifications:

Mfg. by Flex-Kleen

Model No.: 120-WRTC-195 Arr III

Exhaust Fan: 40 hp & 15,000 cfm

A/C: 5.0:1 & 2,982 ft²

PERMIT CONDITIONS; (UNLESS OTHERWISE STATED ALL CONDITIONS RESULT FROM RULE 204 - PERMIT CONDITIONS; VERSION IN SIP = CARB EX. ORDER G-73, 40 CFR 52.220(C)(39)(II)(B) - 11/09/78 43 FR 52237; CURRENT RULE VERSION = 07/25/77:

1. The owner/operator (o/o) shall operate/maintain this equipment in strict accord with recommendations of the manufacturer and/or sound engineering practices.
2. The operating instructions shall be immediately available for use by the operator and provided to District personnel upon request.
3. This equipment shall be operated concurrently with Group 3 silos bulkloading station covered in District permit B001954.
4. The o/o shall have a continuing program of maintenance/inspections in accord with manufacturer's recommendations and specifications which ensures compliance with District Rules. This program shall include, but not be limited to, regular opacity readings, pressure differential measurements, and maintenance inspections. Logging of these data shall be required with the log kept on-site for a minimum of five years. This log shall be provided to District personnel on request.

98. **SHIPPING – BULK, CEMENT – MDAQMD PERMIT # B000066; consisting of:**
Group 4 Silos. Control: C004864 (MBH4) 30 hp; C000071 (MBH5) 30 hp; C008438 (MBH5B) 15 hp.
Air Slide Systems
Elevators, 2 @ 60 hp ea. – ME4, 5
Rotary Screens, 2 @ 15 hp ea – MRS4, 5
Air Slides, 2 @ 10 hp ea, 1 @ 15 hp

PERMIT CONDITIONS; (UNLESS OTHERWISE STATED ALL CONDITIONS RESULT FROM RULE 204 - PERMIT CONDITIONS; VERSION IN SIP = CARB EX. ORDER G-73, 40 CFR 52.220(C)(39)(II)(B) - 11/09/78 43 FR 52237; CURRENT RULE VERSION = 07/25/77:

1. This equipment shall not be operated unless it is vented to functioning air pollution control equipment covered by valid District permits C004864, C000071, and C008438.

99. AIR POLLUTION CONTROL EQUIPMENT (MBH 5) – MDAQMD PERMIT # C000071; consisting of:

Serving Cement Shipping (B000066). Baghouse, Pulse Jet type, 360 bags @ 5.8" dia x 8' L, 4,370 ft², 2.29 A/C ratio, 30 hp - MBH5

PERMIT CONDITIONS; (UNLESS OTHERWISE STATED ALL CONDITIONS RESULT FROM RULE 204 - PERMIT CONDITIONS; VERSION IN SIP = CARB EX. ORDER G-73, 40 CFR 52.220(C)(39)(II)(B) - 11/09/78 43 FR 52237; CURRENT RULE VERSION = 07/25/77:

1. The owner/operator (o/o) shall operate this control equipment in strict accord with the manufacturer's specification and/or sound engineering principles.
2. The o/o shall maintain a record of repairs and maintenance on this equipment and submit it to the District on request. The record shall be retained for a minimum period of five years.
3. The o/o shall maintain on-site, as a minimum, an inventory of replacement bags that assures compliance with applicable Rules of District Regulation IV.

100. BAGHOUSE (MBH 4) – MDAQMD PERMIT # C004864; consisting of:

Serving the Group 4 silos bulkloading station (B000066) with the following specifications:

Mfg. by Flex-Kleen

Model No.: 120-WRTC-252 Arr III

Exhaust Fan: 30 hp & 20,000 cfm

A/C: 5.2:1 & 3,856 ft²

PERMIT CONDITIONS; (UNLESS OTHERWISE STATED ALL CONDITIONS RESULT FROM RULE 204 - PERMIT CONDITIONS; VERSION IN SIP = CARB EX. ORDER G-73, 40 CFR 52.220(C)(39)(II)(B) - 11/09/78 43 FR 52237; CURRENT RULE VERSION = 07/25/77:

1. The owner/operator (o/o) shall operate/maintain this equipment in strict accord with recommendations of the manufacturer and/or sound engineering practices.
2. The operating instructions shall be immediately available for use by the operator and provided to District personnel upon request.

3. This equipment shall be operated concurrently with the Group 4 silos bulkloading station covered in District permit B000009.
4. The o/o shall have a continuing program of maintenance/inspections in accord with manufacturer's recommendations and specifications which ensures compliance with District Rules. This program shall include, but not be limited to, regular opacity readings, pressure differential measurements, and maintenance inspections. Logging of these data shall be required with the log kept on-site for a minimum of five years. This log shall be provided to District personnel on request.

101. BAGHOUSE (MBH5B) – MDAQMD PERMIT # C008438; consisting of:

Airtrol Model 132BSWS120, Pulse-Jet, stack height of 125 ft, diameter of 2.0 ft, airflow of 11500 acfm, velocity of 61 ft/second at 120 degrees F, 15 bhp motor, 132 Polyester bags, 2073 ft² of cloth area and Air-to-Cloth ratio of 5.5:1, maximum emission rate of 0.01 grains PM-10/dscf serving cement shipping Permit (B000066).

PERMIT CONDITIONS; (UNLESS OTHERWISE STATED ALL CONDITIONS RESULT FROM RULE 204 - PERMIT CONDITIONS; VERSION IN SIP = CARB EX. ORDER G-73, 40 CFR 52.220(C)(39)(II)(B) - 11/09/78 43 FR 52237; CURRENT RULE VERSION = 07/25/77:

1. The owner/operator (o/o) shall install, operate and maintain this dust collector in strict accord with those recommendations of the manufacturer/supplier, and sound engineering principles, which produce minimum emissions of air contaminants.
2. The o/o shall institute a program of maintenance which embraces; visible emission determinations performed according to the frequency outlined in the attached summary Table entitled "MACT Standard -- Portland Cement Manufacturing Industry", monthly visual inspections of all associated equipment (inclusive of the bags and their suspensions system) in accordance with 40CFR Part 63.1350, and regular (to be determined with experience with this unit) measurements of the pressure differential across the bags.
3. The o/o shall log all the items in 2 above in addition to bag replacements, repairs and non-scheduled maintenance. The log shall be kept current, on-site for a minimum of 5 years and provided to District personnel on request.
4. The o/o shall maintain an inventory of replacement bags on-site at all times which will ensure compliance with applicable Rules of District Regulation IV.

5. The o/o shall install and maintain a device which measures the pressure differential across the bags if one has not been provided with this unit.
6. This baghouse shall be used to control emissions from Cement Railcar Shipping Upgrade.
7. This baghouse shall discharge no more than 0.90 lb/hour at a maximum concentration of 0.01 grains/dscf of PM10 at the operating conditions described above.
8. Regular emissions testing for demonstration of compliance with District rules 404 and 405 are not required, however, an initial source test is required as noted below. The District may require additional emissions testing at its discretion.
9. Within Sixty days of initial start-up, the o/o shall conduct a compliance test in accordance with the District Compliance Test Procedural Manual to verify the PM-10 emission factor of 0.01 grains/DSCF, as submitted with the application. This test is required to show compliance with Permit conditions and Rules 404 and 405. The District shall be notified at least 10 working days prior to the test date. The test report shall be submitted to the District within 45 days following the tests.

102. CEMENT STORAGE BIN, SCALES & LOADOUT – MDAQMD PERMIT # T007369; consisting of:

A cement storage bin of approximately 200,000 cubic ft, motors, plant air, scales and loadout bin. This equipment is vented to controls: C008185 (MG3BH10), C007370 (MG3SB1BH1), C007371 (MG3LS11BH1), C007372 (MG3LS12BH1), C008190 (MG3LS13BH1), C008191 (MG3LS14BH1), C008192 (MG3LS15BH1), C008193 (MG3LS16BHI)

PERMIT CONDITIONS; (UNLESS OTHERWISE STATED ALL CONDITIONS RESULT FROM RULE 204 - PERMIT CONDITIONS; VERSION IN SIP = CARB EX. ORDER G-73, 40 CFR 52.220(C)(39)(II)(B) - 11/09/78 43 FR 52237; CURRENT RULE VERSION = 07/25/77:

1. The owner/operator, o/o, shall install, operate and maintain the equipment described on this permit in compliance with all data and specifications submitted with the application under which this permit is issued unless specifically exempted below.
2. This equipment shall not be operated unless it is vented to the properly functioning baghouses C008185 (MG3BH10), C007370 (MG3SB1BH1), C007371 (MG3LS11BH1), C007372 (MG3LS12BH1), C008190 (MG3LS13BH1), C008191 (MG3LS14BH1),

C008192 (MG3LS15BH1), C008193 (MG3LS16BHI).

103. BAGHOUSE – MG3SB1BH1 – MDAQMD PERMIT # C007370; consisting of:

Model DCL BV-49, Pulse-Jet, airflow of 2800 acfm at 110 degrees F, 10 hp motor, 37 Polyester Bags, 490 ft2 of cloth area and Air-to-Cloth ratio of 5.7:1

PERMIT CONDITIONS; (UNLESS OTHERWISE STATED ALL CONDITIONS RESULT FROM RULE 204 - PERMIT CONDITIONS; VERSION IN SIP = CARB EX. ORDER G-73, 40 CFR 52.220(C)(39)(II)(B) - 11/09/78 43 FR 52237; CURRENT RULE VERSION = 07/25/77:

1. This baghouse shall operate as part of the process known as the Bulk Unloading System to control emissions from one of 6 loading spouts.
2. The o/o shall maintain, on-site, an inventory of replacement bags sufficient to ensure compliance with applicable rules of District Regulation IV.
3. Regular emissions testing for demonstration of compliance with District rules 404 and 405 is not required after the initial source test already performed. The District may require additional emissions testing at its discretion.
4. The o/o shall operate and maintain this baghouse in strict accord with the recommendations of the manufacturer/supplier.

104. BAGHOUSE (MG3LS11BH1) – MDAQMD PERMIT # C007371; consisting of:

Model DCL FS-467; Pulse-Jet, airflow of 2000 acfm at 110 degrees F, 7.5 hp motor, 32 Polyester Bags, 467 ft2 of cloth area and Air-to-Cloth ratio of 4.3:1

PERMIT CONDITIONS; (UNLESS OTHERWISE STATED ALL CONDITIONS RESULT FROM RULE 204 - PERMIT CONDITIONS; VERSION IN SIP = CARB EX. ORDER G-73, 40 CFR 52.220(C)(39)(II)(B) - 11/09/78 43 FR 52237; CURRENT RULE VERSION = 07/25/77:

1. This baghouse shall operate as part of the process known as the Bulk Unloading System to control emissions from one of 6 loading spouts.
2. The o/o shall maintain, on-site, an inventory of replacement bags sufficient to ensure compliance with applicable rules of District Regulation IV.

3. Regular emissions testing for demonstration of compliance with District rules 404 and 405 is not required after the initial source test already performed. The District may require additional emissions testing at its discretion.
4. The o/o shall operate and maintain this baghouse in strict accord with the recommendations of the manufacturer/supplier.

105. BAGHOUSE- MG3LS12BH1 – MDAQMD PERMIT # C007372; consisting of:

Model DCL DCL FS-467, Pulse-Jet, airflow of 2000 acfm at 110 degrees F, 7.5 hp motor, 32 Polyester Bags, 467 ft² of cloth area and Air-to-Cloth ratio of 4.3:1.

PERMIT CONDITIONS; (UNLESS OTHERWISE STATED ALL CONDITIONS RESULT FROM RULE 204 - PERMIT CONDITIONS; VERSION IN SIP = CARB EX. ORDER G-73, 40 CFR 52.220(C)(39)(II)(B) - 11/09/78 43 FR 52237; CURRENT RULE VERSION = 07/25/77:

1. This baghouse controls emissions from one of 6 loading spouts.
2. The o/o shall maintain, on-site, an inventory of replacement bags sufficient to ensure compliance with applicable rules of District Regulation IV.
3. Regular emissions testing for demonstration of compliance with District rules 404 and 405 is not required after the initial source test already performed. The District may require additional emissions testing at its discretion.
4. The o/o shall operate and maintain this baghouse in strict accord with the recommendations of the manufacturer/supplier.

106. BAGHOUSE (MG3BH10) – MDAQMD PERMIT # C008185; consisting of:

Model DCL DC64-100, Pulse-Jet, airflow of 4000 acfm at 110 degrees F, 15 hp motor, 59 Polyester Bags, 768 ft² of cloth area and Air-to-Cloth ratio of 5.2:1

PERMIT CONDITIONS; (UNLESS OTHERWISE STATED ALL CONDITIONS RESULT FROM RULE 204 - PERMIT CONDITIONS; VERSION IN SIP = CARB EX. ORDER G-73, 40 CFR 52.220(C)(39)(II)(B) - 11/09/78 43 FR 52237; CURRENT RULE VERSION = 07/25/77:

1. This baghouse shall operate as part of the process known as the Bulk Unloading System to control emissions from Air Slide MG3AC20, and Bucket Elevator MG3BE 10.
2. The o/o shall maintain, on-site, an inventory of replacement bags sufficient to ensure compliance with applicable rules of District Regulation IV.
3. Regular emissions testing for demonstration of compliance with District rules 404 and 405 is not required after the initial source test already performed. The District may require additional emissions testing at its discretion.
4. The o/o shall operate and maintain this baghouse in strict accord with the recommendations of the manufacturer/supplier.

- 107. BAGHOUSE (MG3LS13BH1) – MDAQMD PERMIT # C008190; consisting of:**
Model DCL FS-467; Pulse-Jet, airflow of 2000 acfm at 110 degrees F, 7.5 hp motor, 32 Polyester Bags, 467 ft2 of cloth area and Air-to-Cloth ratio of 4.3:1

PERMIT CONDITIONS; (UNLESS OTHERWISE STATED ALL CONDITIONS
RESULT FROM RULE 204 - PERMIT CONDITIONS; VERSION IN SIP = CARB EX.
ORDER G-73, 40 CFR 52.220(C)(39)(II)(B) - 11/09/78 43 FR 52237; CURRENT RULE
VERSION = 07/25/77:

1. This baghouse shall operate as part of the process known as the Bulk Unloading System to control emissions from Loading Spout MG3LS13.
2. The o/o shall maintain, on-site, an inventory of replacement bags sufficient to ensure compliance with applicable rules of District Regulation IV.
3. Regular emissions testing for demonstration of compliance with District rules 404 and 405 is not required after the initial source test already performed. The District may require additional emissions testing at its discretion.
4. The o/o shall operate and maintain this baghouse in strict accord with the recommendations of the manufacturer/supplier.

- 108. BAGHOUSE (MG3LS14BH1) – MDAQMD PERMIT # C008191; consisting of:**
Model DCL FS-467; Pulse-Jet, airflow of 2000 acfm at 110 degrees F, 7.5 hp motor, 32 Polyester Bags, 467 ft2 of cloth area and Air-to-Cloth ratio of 4.3:1

PERMIT CONDITIONS; (UNLESS OTHERWISE STATED ALL CONDITIONS RESULT FROM RULE 204 - PERMIT CONDITIONS; VERSION IN SIP = CARB EX. ORDER G-73, 40 CFR 52.220(C)(39)(II)(B) - 11/09/78 43 FR 52237; CURRENT RULE VERSION = 07/25/77:

1. This baghouse shall operate as part of the process known as the Bulk Unloading System to control emissions from Loading Spout MG3LS14.
2. The o/o shall maintain, on-site, an inventory of replacement bags sufficient to ensure compliance with applicable rules of District Regulation IV.
3. Regular emissions testing for demonstration of compliance with District rules 404 and 405 is not required after the initial source test already performed. The District may require additional emissions testing at its discretion.
4. The o/o shall operate and maintain this baghouse in strict accord with the recommendations of the manufacturer/supplier.

- 109. BAGHOUSE (MG3LS15BH1) – MDAQMD PERMIT # C008192; consisting of:**
Model DCL FS-467; Pulse-Jet, airflow of 2000 acfm at 110 degrees F, 7.5 hp motor, 32 Polyester Bags, 467 ft² of cloth area and Air-to-Cloth ratio of 4.3:1

PERMIT CONDITIONS; (UNLESS OTHERWISE STATED ALL CONDITIONS RESULT FROM RULE 204 - PERMIT CONDITIONS; VERSION IN SIP = CARB EX. ORDER G-73, 40 CFR 52.220(C)(39)(II)(B) - 11/09/78 43 FR 52237; CURRENT RULE VERSION = 07/25/77:

1. This baghouse shall operate as part of the process known as the Bulk Unloading System to control emissions from Loading Spout MG3LS15.
2. The o/o shall maintain, on-site, an inventory of replacement bags sufficient to ensure compliance with applicable rules of District Regulation IV.
3. Regular emissions testing for demonstration of compliance with District rules 404 and 405 is not required after the initial source test already performed. The District may require additional emissions testing at its discretion.
4. The o/o shall operate and maintain this baghouse in strict accord with the

recommendations of the manufacturer/supplier.

110. BAGHOUSE (MG3LS16BH1)- MDAQMD PERMIT # C008193; consisting of:

Model DCL FS-467; Pulse-Jet, airflow of 2000 acfm at 110 degrees F, 7.5 hp motor, 32 Polyester Bags, 467 ft2 of cloth area and Air-to-Cloth ratio of 4.3:1

PERMIT CONDITIONS; (UNLESS OTHERWISE STATED ALL CONDITIONS RESULT FROM RULE 204 - PERMIT CONDITIONS; VERSION IN SIP = CARB EX. ORDER G-73, 40 CFR 52.220(C)(39)(II)(B) - 11/09/78 43 FR 52237; CURRENT RULE VERSION = 07/25/77:

1. This baghouse shall operate as part of the process known as the Bulk Unloading System to control emissions from Loading Spout MG3LS16.
2. The o/o shall maintain, on-site, an inventory of replacement bags sufficient to ensure compliance with applicable rules of District Regulation IV.
3. Regular emissions testing for demonstration of compliance with District rules 404 and 405 is not required after the initial source test already performed. The District may require additional emissions testing at its discretion.
4. The o/o shall operate and maintain this baghouse in strict accord with the recommendations of the manufacturer/supplier.

GROUP # 5 – MISCELLANEOUS EQUIPMENT

111. GASOLINE DISPENSING FACILITY (NON-RETAIL) – MDAQMD PERMIT # N001452; consisting of:

Capacity	Fuel Type	Underground
10000	87U	YES
15000	Diesel	YES

PERMIT CONDITIONS; (UNLESS OTHERWISE STATED ALL CONDITIONS RESULT FROM RULE 204 - PERMIT CONDITIONS; VERSION IN SIP = CARB EX. ORDER G-73, 40 CFR 52.220(C)(39)(II)(B) - 11/09/78 43 FR 52237; CURRENT RULE VERSION = 07/25/77:

1. The toll-free telephone number that must be posted is 1-800-635-4617.
2. The owner/operator (o/o) shall maintain a log of all inspections, repairs, and maintenance on equipment subject to Rule 461. Such logs or records shall be maintained at the facility for at least five (5) years and shall be available to the District upon request.
3. Any modifications or changes to the piping or control fittings of the vapor recovery system requires prior approval from the District.

**112. EMERGENCY ELECTRICAL GENERATOR – MDAQMD PERMIT # E004746;
consisting of:**

One Caterpillar, Diesel fired internal combustion engine, Model No. 3508DITA and Serial No. 12F00507, After Cooled, Turbo Charged, producing 1337 bhp with 8 cylinders at ____ rpm while consuming a maximum of _____. This equipment powers a _____.

PERMIT CONDITIONS; (UNLESS OTHERWISE STATED ALL CONDITIONS RESULT FROM RULE 204 - PERMIT CONDITIONS; VERSION IN SIP = CARB EX. ORDER G-73, 40 CFR 52.220(C)(39)(II)(B) - 11/09/78 43 FR 52237; CURRENT RULE VERSION = 07/25/77:

1. The owner/operator (o/o) shall log all starting and stopping times of the test periods of this generator, to the nearest minute, and the date. The log shall be maintained current, on-site, for a minimum of five years and presented to District personnel on request.
2. The o/o shall comply with all applicable rules and regulations of the District.
3. The o/o shall use only diesel fuel whose sulfur concentration is less than or equal to 5% on a weight per weight basis.
4. This unit shall be limited to use for emergency power when commercially available power has been interrupted. The unit may be operated weekly as part of a testing program which does not exceed 60 minutes per week.
5. This unit shall not be operated more than 1,000 hours yearly without prior written approval of the District APCO.

113. IC ENGINE, DIESEL EMERGENCY COMPRESSOR – MDAQMD PERMIT # E004731; consisting of:

Detroit ICE, rated at 320 bhp. The Detroit, model No. 70 83 7000, serial No. 8VA25408, 8-cylinder engine, is used to power an Air Compressor, named Joy. These units do not operate simultaneously except during brief periods when one is changed over while another one is being repaired and/or maintained.

PERMIT CONDITIONS; (UNLESS OTHERWISE STATED ALL CONDITIONS RESULT FROM RULE 204 - PERMIT CONDITIONS; VERSION IN SIP = CARB EX. ORDER G-73, 40 CFR 52.220(C)(39)(II)(B) - 11/09/78 43 FR 52237; CURRENT RULE VERSION = 07/25/77:

1. The owner/operator (o/o) shall log all starting and stopping times of the test periods of this compressor, to the nearest minute; the date; and the delivery of fuel.
2. The o/o shall comply with all applicable rules and regulations of the District.
3. The o/o shall not use diesel fuel whose sulfur concentration is 0.05% on w/w basis.
4. The o/o shall not use any fuel in this compressor other than diesel without the written prior approval of the District. The o/o may use the supplier's sulfur analytical data, but at the discretion of the District, shall take a sample of the fuel and submit it for analysis by an independent laboratory. The results of said analyses, by ASTM method D 2622-82, shall be logged.
5. The o/o shall maintain the logs current, on-site for a minimum of five years and provide them to District personnel on request.
6. This unit shall only be used in time of emergency, defined as when commercially available power has been interrupted, and as part of a testing program which does not exceed 60 minutes per week.

CEMEX - Black Mountain Quarry Plant

A. EQUIPMENT DESCRIPTION

GROUP # 1 – CRUSHING SYSTEM

**1. CRUSHER - PRIMARY LIMESTONE – MDAQMD PERMIT # B000080;
consisting of:**

Allis Mineral Systems, Superior model 4265 gyratory crusher which is rated at a maximum of 1200 t/h for the current open side setting and eccentric throw.

PERMIT CONDITIONS; (UNLESS OTHERWISE STATED ALL CONDITIONS RESULT FROM RULE 204 - PERMIT CONDITIONS; VERSION IN SIP = CARB EX. ORDER G-73, 40 CFR 52.220(C)(39)(II)(B) - 11/09/78 43 FR 52237; CURRENT RULE VERSION = 07/25/77:

1. Materials processed by equipment in this permit shall contain sufficient natural and/or added moisture to ensure compliance with District Rules 401 and 403. Sufficient water and equipment in operable condition shall be maintained on-site and used as necessary to ensure compliance with the above-mentioned rules.
2. The owner/operator (o/o) shall operate all equipment described in this permit in strict accord with the recommendations of the manufacturer/supplier and/or sound engineering principles which produce the minimum emission of air contaminants.
3. This equipment is limited to processing 21,600 tons of material in any day from midnight to midnight.
4. The o/o shall log the mass of all materials processed on a daily basis. Also logged shall be all inspections, repairs and maintenance. This log shall be maintained current, on-site and provided to District personnel on request.

**2. CRUSHER - SECONDARY LIMESTONE – MDAQMD PERMIT # B000081;
consisting of:**

900 tons per hour. Controls: C002081 (BIC1DS) @ .5 hp; C002082 (BIC2DS) @ .5 hp. Scavenger Drag Conveyor - BAFC1DC

Scavenger Drag Conveyor - BAFC2DC
Apron Feed Conveyor - BAFC1
Apron Feed Conveyor - BAFC2
Belt Conveyor - BBC2
Belt Conveyor - BBC5
Vibrating Screen - BVS1
Vibrating Screen - BVS2
Impactor, Pennsylvania - BIC1
Impactor, Pennsylvania - BIC2
Belt Conveyor - BBC3
Belt Conveyor - BBC6
Belt Conveyor - BBC4
Belt Conveyor - BBC7
Vibrating Screen - BVS3
Vibrating Screen - BVS4
Vibrating Screen - BVS5
Vibrating Screen - BVS6
Belt Conveyor - CBC1
Belt Conveyor - CBC2
Belt Conveyor - CBC3
Belt Conveyor - CBC4
Sample System
Belt Conveyor - CBC5
Belt Conveyor - CBC6
Belt Conveyor - CBC8
Air Compressors - 1 @ 50 hp and 1 @ 3 hp

PERMIT CONDITIONS; (UNLESS OTHERWISE STATED ALL CONDITIONS
RESULT FROM RULE 204 - PERMIT CONDITIONS; VERSION IN SIP = CARB EX.
ORDER G-73, 40 CFR 52.220(C)(39)(II)(B) - 11/09/78 43 FR 52237; CURRENT RULE
VERSION = 07/25/77:

1. This equipment shall not be operated unless material processed is treated by dust suppression foam applied to each line at the vibrating feeders and impactors. Dust Suppression Systems operating under District valid permit Nos. C002081 and C002082 shall supply foam. If only one processing line is in operation, only the appropriate control for that line is required to be in operation.
2. The owner/operator (o/o) shall operate this particulate control equipment in strict accordance with the manufacturer's specifications and/or sound engineering principles.

3. The o/o shall maintain a log of all inspections, repairs, and maintenance on this equipment and submit it to the District on request. The log shall be kept for a minimum period of five years.
4. The o/o shall maintain a Daily Log of hourly limestone feed rates to this crusher, feed rates shall not exceed 900 tph. The log shall be kept on-site for a minimum of two years and submitted to the District on request.

**3. AIR POLLUTION CONTROL EQUIPMENT- MDAQMD PERMIT # C002081;
consisting of:**

Serving Secondary Limestone Crusher, West Line (B000081).
BIC1DS – Superkon Dust Suppression System:
1 Superkon chemical additive container and 1 Pump System
16 HP Motor - Type Grundsos:

PERMIT CONDITIONS; (UNLESS OTHERWISE STATED ALL CONDITIONS
RESULT FROM RULE 204 - PERMIT CONDITIONS; VERSION IN SIP = CARB EX.
ORDER G-73, 40 CFR 52.220(C)(39)(II)(B) - 11/09/78 43 FR 52237; CURRENT RULE
VERSION = 07/25/77:

1. The owner/operator (o/o) shall operate this particulate control equipment in strict accordance with the manufacturer's specifications and/or sound engineering principles.
2. The o/o shall maintain a log of all inspections, repairs, and maintenance on this equipment and submit it to the District on request. The log shall be kept for a minimum period of five years.

**4. AIR POLLUTION CONTROL EQUIPMENT- MDAQMD PERMIT # C002082;
consisting of:**

Serving Secondary Limestone Crusher, East line (B000081).
BIC2DS – Superkon Dust Suppression System:
1 Superkon chemical additive container and 1 Pump System
16 HP Motor - Type Grundsos:

PERMIT CONDITIONS; (UNLESS OTHERWISE STATED ALL CONDITIONS
RESULT FROM RULE 204 - PERMIT CONDITIONS; VERSION IN SIP = CARB EX.
ORDER G-73, 40 CFR 52.220(C)(39)(II)(B) - 11/09/78 43 FR 52237; CURRENT RULE

VERSION = 07/25/77:

1. The owner/operator (o/o) shall operate this particulate control equipment in strict accordance with the manufacturer's specifications and/or sound engineering principles.
2. The o/o shall maintain a log of all inspections, repairs, and maintenance on this equipment and submit it to the District on request. The log shall be kept for a minimum period of five years.

5 LIMESTONE SHIPPING – MDAQMD PERMIT # B000082; consisting of:

Bulk by Rail.

Vibrating Feeders – CVF1 & CVF2

Belt Conveyor – CBC7

PERMIT CONDITIONS; (UNLESS OTHERWISE STATED ALL CONDITIONS RESULT FROM RULE 204 - PERMIT CONDITIONS; VERSION IN SIP = CARB EX. ORDER G-73, 40 CFR 52.220(C)(39)(II)(B) - 11/09/78 43 FR 52237; CURRENT RULE VERSION = 07/25/77:

1. Materials processed shall contain sufficient natural, or added, moisture to ensure compliance with Rule 401, 402 and 403. Sufficient water and equipment to properly wet the material being processed shall be maintained in operable condition on the site and used as necessary to assure compliance.
1. The owner/operator (o/o) shall operate this particulate control equipment in strict accordance with the manufacturer's specifications and/or sound engineering principles.
2. The o/o shall maintain a log of all inspections, repairs, and maintenance on this equipment and submit it to the District on request. The log shall be kept for a minimum period of five years.

6. LIMESTONE STACKING SYSTEM – STORAGE – MDAQMD PERMIT # B001666; consisting of:

Controls: C002081 (BIC1DS), C002082 (BIC2DS), and C007337 (CBH3), all under B000081.

Drop Tube from CBD8

Belt Conveyor – CBC9

Belt Conveyor – CBC10

Belt Conveyor – CBC11

PERMIT CONDITIONS; (UNLESS OTHERWISE STATED ALL CONDITIONS RESULT FROM RULE 204 - PERMIT CONDITIONS; VERSION IN SIP = CARB EX. ORDER G-73, 40 CFR 52.220(C)(39)(II)(B) - 11/09/78 43 FR 52237; CURRENT RULE VERSION = 07/25/77:

1. Materials processed shall contain sufficient natural, or added, moisture to ensure compliance with Rule 401, 402, and 403. Sufficient water and equipment to properly wet the material being processed shall be maintained in operable condition on the site and used as necessary to assure compliance.
2. This equipment shall not be operated unless it is receiving limestone treated by foam system operating under District valid permit Nos. C002081, C002082, and (Baghouse CBH3) C007337.

***GROUP # 2 – RAW GRINDING: RAW MILLS 1 & 2
LIMESTONE RECLAIM & STORAGE***

7. RAW MATERIAL SYSTEM – NO. 1 – MDAQMD PERMIT # B000083; consisting of:

Controls: C000087 (DBH3) 15 hp; C000095 (EBH1) 75 hp; C0001667 (DBH1) 75 hp; C001668 (EBH2) 25 hp; C001294 (EBH3); C001295 (EBH4) under B001084; C008244 (DBH6) 20 hp

Belt Conveyor – DBC4

Belt Conveyor – DBC5,6 (25 + 3 hp)

Raw Mill No. 1 – DRM1 (2 x 1,250 hp)

Belt Feeder – DWF5 (3 + 1 hp)

Bucket Elevator – DE1

Dust Return System

Air Separators - DAS1,2 (2 x 125 + 30 hp)

Fuller Kinyon Pump - DP1 (400 + 250)

3 Rotary Locks @ 1.5 hp ea.

1 Rotary Lock

PERMIT CONDITIONS; (UNLESS OTHERWISE STATED ALL CONDITIONS

RESULT FROM RULE 204 - PERMIT CONDITIONS; VERSION IN SIP = CARB EX.
ORDER G-73, 40 CFR 52.220(C)(39)(II)(B) - 11/09/78 43 FR 52237; CURRENT RULE
VERSION = 07/25/77:

1. This equipment shall not be operated unless it is vented to the functioning air pollution control equipment covered by all the appropriate District valid permit Nos. C000087, C000095, C001294, C001295, C001667, C001668, and C008244 as determined by three possible routings from 3-way valves 27-TWV-3 and 27-TWV-4.
2. The owner/operator (o/o) shall operate this equipment in strict accordance with the manufacturer's specifications and/or sound engineering principles.
3. The o/o shall maintain a log of all inspections, repairs, and maintenance on this equipment and submit it to the District on request. The log shall be kept for a minimum period of five years.

8. AIR POLLUTION CONTROL EQUIPMENT (DBH3) – MDAQMD PERMIT # C000087; consisting of:

Serving Raw Mill System 27RM1 (B000083).

DBH3 - Baghouse, Fabric Filters Corp., model 120-WRTC-80III on line, from DBC-4 to DBC-5, 120 16-oz polyester felt bags 5.8" dia x 10' L, 2,252 sq.ft., 0.9 A/C ratio.

19F2 - 2,500 ACFM fan, American Standard, size 15, type E, model 15-249, with 15 hp motor.

PERMIT CONDITIONS; (UNLESS OTHERWISE STATED ALL CONDITIONS
RESULT FROM RULE 204 - PERMIT CONDITIONS; VERSION IN SIP = CARB EX.
ORDER G-73, 40 CFR 52.220(C)(39)(II)(B) - 11/09/78 43 FR 52237; CURRENT RULE
VERSION = 07/25/77:

1. The owner/operator (o/o) shall operate this particulate control equipment in strict accordance with the manufacturer's specifications and/or sound engineering principles.
2. The o/o shall maintain a log of all inspections, repairs, and maintenance on this equipment and submit it to the District on request. The log shall be kept for a minimum period of five years.
3. The o/o shall maintain on-site, as a minimum, an inventory of replacement bags that assures compliance with applicable Rules of District Regulation IV.

9. **AIR POLLUTION CONTROL EQUIPMENT (EBH1) – MDAQMD PERMIT # C000095 consisting of:**

Serving Kiln 1Q feed silo (B000083).

EBH1 - Baghouse, Mikro Pul 3 compartment, 2,862 sq.ft. cloth area, 14,000 CFM, 75 hp fan.

PERMIT CONDITIONS; (UNLESS OTHERWISE STATED ALL CONDITIONS RESULT FROM RULE 204 - PERMIT CONDITIONS; VERSION IN SIP = CARB EX. ORDER G-73, 40 CFR 52.220(C)(39)(II)(B) - 11/09/78 43 FR 52237; CURRENT RULE VERSION = 07/25/77:

1. The owner/operator (o/o) shall operate this particulate control equipment in strict accordance with the manufacturer's specifications and/or sound engineering principles.
2. The o/o shall maintain a log of all inspections, repairs, and maintenance on this equipment and submit it to the District on request. The log shall be kept for a minimum period of five years.
3. The o/o shall maintain on-site, as a minimum, an inventory of replacement bags that assures compliance with applicable Rules of District Regulation IV.

10. **AIR POLLUTION CONTROL EQUIPMENT (EBH3) – MDAQMD PERMIT # C001294 consisting of:**

Serving No. 1 raw mill system DRM12 (B00083).

EBH3 - Dust Collector System, Kiln No. 1 homogenizing silo No. 2 vent, Pulse jet type with 10' polyester felt bags, 15,000 CFM (max intermittent), 2,525 sq.ft. cloth area, A/C ratio 5.9:1, 60 hp, 1,332 RPM Buffalo 60 MW fan. 60 hp.

PERMIT CONDITIONS; (UNLESS OTHERWISE STATED ALL CONDITIONS RESULT FROM RULE 204 - PERMIT CONDITIONS; VERSION IN SIP = CARB EX. ORDER G-73, 40 CFR 52.220(C)(39)(II)(B) - 11/09/78 43 FR 52237; CURRENT RULE VERSION = 07/25/77:

1. Particulate emissions shall not exceed a discharge grain loading of .02 grains per actual cubic foot.
2. The owner/operator (o/o) shall operate this particulate control equipment in strict accordance with the manufacturer's specifications and/or sound engineering principles.

3. The o/o shall maintain a log of all inspections, repairs, and maintenance on this equipment and submit it to the District on request. The log shall be kept for a minimum period of five years.
4. The o/o shall maintain on-site, as a minimum, an inventory of replacement bags that assures compliance with applicable Rules of District Regulation IV.

11. AIR POLLUTION CONTROL EQUIPMENT (DBH1) – MDAQMD PERMIT # C001667; consisting of:

Serving No. 1 Raw Mill (B000083).

DBH1 - Baghouse, Southwest PC Mark VII, 7 compartments, 525 - 6"x166" fabric bags, 11,393 SF, 26,000 CFM, 75 hp.

PERMIT CONDITIONS; (UNLESS OTHERWISE STATED ALL CONDITIONS RESULT FROM RULE 204 - PERMIT CONDITIONS; VERSION IN SIP = CARB EX. ORDER G-73, 40 CFR 52.220(C)(39)(II)(B) - 11/09/78 43 FR 52237; CURRENT RULE VERSION = 07/25/77:

1. The owner/operator (o/o) shall operate this particulate control equipment in strict accordance with the manufacturer's specifications and/or sound engineering principles.
2. The o/o shall maintain a log of all inspections, repairs, and maintenance on this equipment and submit it to the District on request. The log shall be kept for a minimum period of five years.
3. The o/o shall maintain on-site, as a minimum, an inventory of replacement bags that assures compliance with applicable Rules of District Regulation IV.

12. AIR POLLUTION CONTROL EQUIPMENT (EBH2) – MDAQMD PERMIT # C001668; consisting of:

Serving No. 1 Raw Mill, East Homo Silo (B000083).

EBH2 - Baghouse, FlexKleen Pulse-Jet 754 SF, 4,000 CFM. 25 hp.

PERMIT CONDITIONS; (UNLESS OTHERWISE STATED ALL CONDITIONS RESULT FROM RULE 204 - PERMIT CONDITIONS; VERSION IN SIP = CARB EX. ORDER G-73, 40 CFR 52.220(C)(39)(II)(B) - 11/09/78 43 FR 52237; CURRENT RULE VERSION = 07/25/77:

1. The owner/operator (o/o) shall operate this particulate control equipment in strict accordance with the manufacturer's specifications and/or sound engineering principles.
2. The o/o shall maintain a log of all inspections, repairs, and maintenance on this equipment and submit it to the District on request. The log shall be kept for a minimum period of five years.
3. The o/o shall maintain on-site, as a minimum, an inventory of replacement bags that assures compliance with applicable Rules of District Regulation IV.

13. **BAGHOUSE (DBH6) – MDAQMD PERMIT # C008244; consisting of:**
Flex-Kleen 12U-BVT-25 (III), Pulse-Jet, airflow of 2000 acfm at ambient temperature, 20 bhp motor, 25 Polyester Bags, 383 ft² of cloth area and Air-to-Cloth ratio of 5.2:1, maximum emission rate of 0.01 grains PM-10/dscf

PERMIT CONDITIONS; (UNLESS OTHERWISE STATED ALL CONDITIONS RESULT FROM RULE 204 - PERMIT CONDITIONS; VERSION IN SIP = CARB EX. ORDER G-73, 40 CFR 52.220(C)(39)(II)(B) - 11/09/78 43 FR 52237; CURRENT RULE VERSION = 07/25/77:

1. The owner/operator (o/o) shall install, operate and maintain this dust collector in strict accord with those recommendations of the manufacturer/supplier, and sound engineering principles, which produce minimum emissions of air contaminants.
2. The o/o shall institute a program of maintenance which embraces; visible emission determinations performed according to the frequency outlined in the attached summary Table entitled "MACT Standard -- Portland Cement Manufacturing Industry", monthly visual inspections of all associated equipment (inclusive of the bags and their suspensions system) in accordance with 40CFR Part 63.1350, and regular (to be determined with experience with this unit) measurements of the pressure differential across the bags.
3. The o/o shall log all the items in 2 above in addition to bag replacements, repairs and non-scheduled maintenance. The log shall be kept current, on-site for a minimum of 5 years and provided to District personnel on request.
4. The o/o shall maintain an inventory of replacement bags on-site at all times which will ensure compliance with applicable Rules of District Regulation IV.

5. The o/o shall install and maintain a device which measures the pressure differential across the bags if one has not been provided with this unit.
 6. This baghouse shall operate concurrently with the Raw Material Grinding System, under valid District permit number B000083 at transfer point DB5/DB6.
 7. This baghouse shall discharge no more than 0.17 lb/hour, at a maximum concentration of 0.01 grains/dscf of PM10, at the operating conditions described above.
 8. Opacity measurements shall not exceed 10% aggregated for 3 minutes in any 1-hour period.
 9. Regular emissions testing for demonstration of compliance with District rules 404 and 405 are not required after the initial source test that has previously been accomplished. The District may require additional emissions testing at its discretion.
14. **RAW MILL NO. 2 SYSTEM – MDAQMD PERMIT # B001084; consisting of:**
Controls: C001292 (DBH5) 20 hp; C001293 (DBH2) 1000 hp; C001295 (EBH4) 100 hp;
C001296 (DBH4) 5 hp; and C003249 (QBH1) 3 hp.
Vibrating Feeder (2 x 2 hp) – DVF4,5,6
Weight Feeders (4 x 2 hp) – DWF6-9, 12
Weight Feeder (3 + 1) DWF10
Conveyor Belt, Tunnel
Conveyor Belt, Covered
Conveyor Belt, Covered
Conveyor Belt, Covered
Conveyor Belt, Covered
No. 2 Raw Mill, Ball (inching Drive @ 125 hp)
Conveyor, Pneu (4, 7.5, 7.5 hp)
Conveyor, Pneu
Bucket Elevator
Air Separator
Cyclone
Conveyor, Screw
Conveyor, Pneu (4@250, 1 stand-by)
Aux. Heater (50+30+3)
3 Rotary Air Locks @ 1.5 hp
Conveyor, Screw
Additive Feed Bin

Aeration Blower
Rotary Feeder

PERMIT CONDITIONS; (UNLESS OTHERWISE STATED ALL CONDITIONS RESULT FROM RULE 204 - PERMIT CONDITIONS; VERSION IN SIP = CARB EX. ORDER G-73, 40 CFR 52.220(C)(39)(II)(B) - 11/09/78 43 FR 52237; CURRENT RULE VERSION = 07/25/77:

1. This equipment shall not be operated unless it is vented to the functioning air pollution control equipment covered by the appropriate District valid permit Nos. C001292, C001293, C001295, C001296 and C003249, as determined by three possible routings from 2-way valves DP2TWV1 and DP2TWV2.
2. The owner/operator (o/o) shall operate this equipment in strict accordance with the manufacturer's specifications and/or sound engineering principles.
3. The o/o shall maintain a log of all inspections, repairs and maintenance on this equipment and submit it to the District on request. The log shall be kept for a minimum period of five years.

15. AIR POLLUTION CONTROL EQUIPMENT (DBH5) - MDAQMD PERMIT # C001292; consisting of:

Serving raw mill system DRM2 (B001084).

DBH5 - Dust Collector System, DBC-8 to DBC-9 transfer, Flex Kleen 12U-BVT-25 (III), serial No. 40-53-20716, Pulse Jet type with polyester felt media, 2,000 CFM, 383 sq.ft. A/C ratio 5.22:1 with 25 5.84"x10' bags. 20 hp.

PERMIT CONDITIONS; (UNLESS OTHERWISE STATED ALL CONDITIONS RESULT FROM RULE 204 - PERMIT CONDITIONS; VERSION IN SIP = CARB EX. ORDER G-73, 40 CFR 52.220(C)(39)(II)(B) - 11/09/78 43 FR 52237; CURRENT RULE VERSION = 07/25/77:

1. Particulate emissions shall not exceed a discharge grain loading of .02 grains per actual cubic foot.
2. The owner/operator (o/o) shall operate this particulate control equipment in strict accordance with the manufacturer's specifications and/or sound engineering principles.
3. The o/o shall maintain a log of all inspections, repairs, and maintenance on this equipment

and submit it to the District on request. The log shall be kept for a minimum period of five years.

4. The o/o shall maintain on-site, as a minimum, an inventory of replacement bags that assures compliance with applicable Rules of District Regulation IV.

16. AIR POLLUTION CONTROL EQUIPMENT (DBH2) - MDAQMD PERMIT # C001293; consisting of:

Serving raw mill system DRM2 (B001084).

DBH2 - Dust Collector System, No. 2 Raw Mill vent plus RM nuisance dust control, Pulse jet type with 12' polyester felt bags, 95,000 CFM, 16,961 sq.ft., A/C ratio 5.60:1 includes 700 hp, 1,180 RPM Solvent-Ventec fan. 1,000 hp.

PERMIT CONDITIONS; (UNLESS OTHERWISE STATED ALL CONDITIONS RESULT FROM RULE 204 - PERMIT CONDITIONS; VERSION IN SIP = CARB EX. ORDER G-73, 40 CFR 52.220(C)(39)(II)(B) - 11/09/78 43 FR 52237; CURRENT RULE VERSION = 07/25/77:

1. Particulate emissions shall not exceed a discharge grain loading of .02 grains per actual cubic foot.
2. The owner/operator (o/o) shall operate this particulate control equipment in strict accordance with the manufacturer's specifications and/or sound engineering principles.
3. The o/o shall maintain a log of all inspections, repairs, and maintenance on this equipment and submit it to the District on request. The log shall be kept for a minimum period of five years.
4. The o/o shall maintain on-site, as a minimum, an inventory of replacement bags that assures compliance with applicable Rules of District Regulation IV.

17. AIR POLLUTION CONTROL EQUIPMENT (EBH4) - MDAQMD PERMIT # C001295; consisting of:

Serving No. 2 Raw Mill System 27RM2 (B001084).

EBH4 - Dust Collector System, Kiln No. 2 homogenizing silo vent, pulse jet type with 10' polyester felt bags, 20,000 CFM (max intermittent), 3.443 sq.ft. cloth area, A/C ratio 5.8:1 100 hp, 1,113 RPM Buffalo 70 MW fan. 100 hp.

PERMIT CONDITIONS; (UNLESS OTHERWISE STATED ALL CONDITIONS RESULT FROM RULE 204 - PERMIT CONDITIONS; VERSION IN SIP = CARB EX. ORDER G-73, 40 CFR 52.220(C)(39)(II)(B) - 11/09/78 43 FR 52237; CURRENT RULE VERSION = 07/25/77:

1. Particulate emissions shall not exceed a discharge grain loading of .02 grains per actual cubic foot.
2. The owner/operator (o/o) shall operate this particulate control equipment in strict accordance with the manufacturer's specifications and/or sound engineering principles.
3. The o/o shall maintain a log of all inspections, repairs, and maintenance on this equipment and submit it to the District on request. The log shall be kept for a minimum period of five years.
4. The o/o shall maintain on-site, as a minimum, an inventory of replacement bags that assures compliance with applicable Rules of District Regulation IV.

18. AIR POLLUTION CONTROL EQUIPMENT (DBH4) - MDAQMD PERMIT # C001296; consisting of:

Serving Raw Mill System DRM2 (B001084).

DBH4 - Dust Collector System, DBC-7 to DBC-8 Transfer, DCE Vokes envelope filter model DCM-V20/10, 2,000 CFM, 323 sq.ft., A/C ratio 6.19:1. 5 hp.

PERMIT CONDITIONS; (UNLESS OTHERWISE STATED ALL CONDITIONS RESULT FROM RULE 204 - PERMIT CONDITIONS; VERSION IN SIP = CARB EX. ORDER G-73, 40 CFR 52.220(C)(39)(II)(B) - 11/09/78 43 FR 52237; CURRENT RULE VERSION = 07/25/77:

1. Particulate emissions shall not exceed a discharge grain loading of .02 grains per actual cubic foot.
2. The owner/operator (o/o) shall operate this particulate control equipment in strict accordance with the manufacturer's specifications and/or sound engineering principles.
3. The o/o shall maintain a log of all inspections, repairs, and maintenance on this equipment and submit it to the District on request. The log shall be kept for a minimum period of five years.

4. The o/o shall maintain on-site, as a minimum, an inventory of replacement bags that assures compliance with applicable Rules of District Regulation IV.

19. BAGHOUSE (QBH1) - MDAQMD PERMIT # C003249; consisting of:

Serving No. 2 Raw Mill Additive System (B001084) - Fuller type 3FM Unifilter Dust Collector - 16 envelope type bags 4'8" x 3'6" with 400 ft² cloth area - exhaustor is 3 hp, 1600 ACFM, 47.4 fps and 110 degrees F with a stack 56' height and 10.2" dia. - Bag cleaning by mechanical shaker.

PERMIT CONDITIONS; (UNLESS OTHERWISE STATED ALL CONDITIONS RESULT FROM RULE 204 - PERMIT CONDITIONS; VERSION IN SIP = CARB EX. ORDER G-73, 40 CFR 52.220(C)(39)(II)(B) - 11/09/78 43 FR 52237; CURRENT RULE VERSION = 07/25/77:

1. The owner/operator (o/o) shall have a maintenance plan for this baghouse, which will include at a minimum, a log that will include visual emission readings on a regular basis, recording of differential pressures across the baghouse and inspection/repairs frequency.
2. The maintenance log for this baghouse shall be maintained on-site for five years and be made available to the District upon request.
3. The o/o shall maintain on-site, as a minimum, an inventory of replacement bags that assures compliance with applicable Rules of District Regulation IV.
4. This baghouse shall only be operated and maintained in strict accord with manufacturer's and/or supplier's recommendations and/or sound engineering principles.

20. LIMESTONE RECLAIM SYSTEM - MDAQMD PERMIT # B001289; consisting of:

For storage. Controls: C001290 (CBH1) 25 hp; C001291 (CBH2) 40 hp.

Bridge-type Reclaimer - CBR

Conveyor Belt - CBC12

Conveyor Belt CBC 13

Surge Bin

PERMIT CONDITIONS; (UNLESS OTHERWISE STATED ALL CONDITIONS RESULT FROM RULE 204 - PERMIT CONDITIONS; VERSION IN SIP = CARB EX. ORDER G-73, 40 CFR 52.220(C)(39)(II)(B) - 11/09/78 43 FR 52237; CURRENT RULE VERSION = 07/25/77:

1. This equipment shall not be operated unless it is vented to the functioning air pollution control equipment covered by both District valid permit Nos. C001290 and C001291.
2. Materials processed shall contain sufficient natural, or added, moisture to ensure compliance with Rule 401, 402, and 403. Sufficient water and equipment to properly wet the material being processed shall be maintained in operable condition on the site and used as necessary to assure compliance.
3. The owner/operator (o/o) shall operate this equipment in strict accordance with the manufacturer's specifications and/or sound engineering principles.
4. The o/o shall maintain a log of all inspections, repairs, and maintenance on this equipment and submit it to the District on request. The log shall be kept for a minimum period of five years.

21. AIR POLLUTION CONTROL EQUIPMENT (CBH1) - MDAQMD PERMIT # C001290; consisting of:

Serving raw material reclaim conveyor to elevator conveyor (B001289).

CBH1 - Dust Collector, Flex-Kleen model 120 WRTC 48III, 734 sq.ft. cloth area, 4,000 CFM. A/C ratio 5.45. 25 hp Buffalo Forge exhaust fan, size 45. 25 hp.

PERMIT CONDITIONS; (UNLESS OTHERWISE STATED ALL CONDITIONS RESULT FROM RULE 204 - PERMIT CONDITIONS; VERSION IN SIP = CARB EX. ORDER G-73, 40 CFR 52.220(C)(39)(II)(B) - 11/09/78 43 FR 52237; CURRENT RULE VERSION = 07/25/77:

1. Particulate emissions shall not exceed a discharge grain loading of .02 grains per actual cubic foot.
2. The owner/operator (o/o) shall operate this particulate control equipment in strict accordance with the manufacturer's specifications and/or sound engineering principles.
3. The o/o shall maintain a log of all inspections, repairs, and maintenance on this equipment and submit it to the District on request. The log shall be kept for a minimum period of five years.
4. The o/o shall maintain on-site, as a minimum, an inventory of replacement bags that assures compliance with applicable Rules of District Regulation IV.

22. AIR POLLUTION CONTROL EQUIPMENT (CBH2) - MDAQMD PERMIT # C001291; consisting of:

Serving raw material conveyor DBC 13 to raw mill RM feeder bin (B001289).
CBH2 - Dust Collector, Flex-Kleen model 120 WATC 96III, 1,458 sq.ft. cloth area, 84,000 CFM. A/C ratio 5.45. 40 hp Buffalo Forge exhaust fan, size 45. 40 hp.

PERMIT CONDITIONS; (UNLESS OTHERWISE STATED ALL CONDITIONS RESULT FROM RULE 204 - PERMIT CONDITIONS; VERSION IN SIP = CARB EX. ORDER G-73, 40 CFR 52.220(C)(39)(II)(B) - 11/09/78 43 FR 52237; CURRENT RULE VERSION = 07/25/77:

1. Particulate emissions shall not exceed a discharge grain loading of .02 grains per actual cubic foot.
2. The owner/operator (o/o) shall operate this particulate control equipment in strict accordance with the manufacturer's specifications and/or sound engineering principles.
3. The o/o shall maintain a log of all inspections, repairs, and maintenance on this equipment and submit it to the District on request. The log shall be kept for a minimum period of five years.
4. The o/o shall maintain on-site, as a minimum, an inventory of replacement bags that assures compliance with applicable Rules of District Regulation IV.

23. SILO - STORAGE - MDAQMD PERMIT # T001998; consisting of:

Blending and Homogenizing for Raw Mills.

Controls: C001294 (EBH3 - B000083); C000095 (EBH1 - B000083); C001295 (EBH4 - B001084); C001668 (EBH2 - B000083).

2 Silos, Homogenizing, 100 MCF

1 Silo, Blending Kiln, 195 MCF

PERMIT CONDITIONS; (UNLESS OTHERWISE STATED ALL CONDITIONS RESULT FROM RULE 204 - PERMIT CONDITIONS; VERSION IN SIP = CARB EX. ORDER G-73, 40 CFR 52.220(C)(39)(II)(B) - 11/09/78 43 FR 52237; CURRENT RULE VERSION = 07/25/77:

1. These silos shall not be operated unless they are vented to the functioning air pollution

control equipment covered by the appropriate valid District permit Nos. C001294, C001295, C000095 and C001668.

GROUP # 3A - CLINKER BURNING & COOLING

24. KILN (Q2) AND CLINKER COOLER SYSTEM - MDAQMD PERMIT # B001083;

consisting of:

Coal milling, a pre-heater pre-Calcliner short cement kiln (operating with oxygen enrichment), and a clinker cooler assembly. Note that horsepower ratings have been converted to heat input assuming 2550 Btu per horsepower.

Blending System (67 hp)

Elevator (40 hp) - EF1

Calibration System (15 hp) - EFB

Dust Return System (140 hp)

Air Lift (400 hp) - EALF

Preheater-Precalciner - GPH2 (240 MMBTU/HR)

Preheater 7A (3500 hp) -GDF2

Kiln Q2 (600 hp) - GK2 (and 220 MMBTU/hr)

Clinker Cooler (1560 hp) - GCC2

Belt Conveyor (15 hp) - FBC3

Fifteen 5 hp Screw Conveyors - GGF2SC

Two 3 hp Feeders - FCM1, 2WF

Two 300 hp Coal Mills - FCM 2 & 3

Coal Mill 1 (for 1Q and 2Q, 500 hp) - 33-CMI

Primary Air Fan (110 hp) - GK2BOF

Drag Conveyor (30 hp) - GCC2DC1

Drag Conveyor (10 hp) - GCC2DC2

Roller Crusher (four 17.7 hp)

Bucket Conveyor (25 hp) - GPC1

Distribution Drag Conveyor (30 hp) - GG CDC

Seven 75 hp Cooling Fans - GGCF1 through GGCF7

Discharge Gate Drive (10 hp) - GGCDG1B

Pan Conveyor (15 hp) - HPC1

PERMIT CONDITIONS; (UNLESS OTHERWISE STATED ALL CONDITIONS
RESULT FROM RULE 204 - PERMIT CONDITIONS; VERSION IN SIP = CARB EX.
ORDER G-73, 40 CFR 52.220(C)(39)(II)(B) - 11/09/78 43 FR 52237; CURRENT RULE

VERSION = 07/25/77:

1. Operation of this equipment shall be conducted in compliance with data and specifications submitted with the application under which this permit is issued unless otherwise noted below.
2. This equipment shall not be operated unless it is vented to the functioning air pollution control equipment covered by all six valid District permits (C001090 (GBH2), C001091 (GBF2), C001299 (EBH5), and C005190).
3. The sulfur content requirements of Rule 431 shall be complied with through the SO_x emissions limits presented below, in accordance with Rule 431(g).
4. No fuel oil may be stored on-site unless it has a 0.9042 specific gravity or higher (25 degrees API or lower), in accordance with Rule 219(n)(3)(b), or is stored in containers with a valid operating permit.
5. The combined emissions from Kilns Q2 and Q3, on any fuel or mix of fuels, shall not exceed the following daily (midnight to midnight) limits, calculated on a rolling thirty (30) day arithmetic average basis:
 - a. NO_x - 42,207 lbs (verified by CEMS and CERMS)
 - b. SO_x - 4,220 lbs (verified by CEMS and CERMS)
 - c. CO - 27,522 lbs (verified by CEMS and CERMS)
 - d. VOC - 2,139 lbs (verified by annual source test and CERMS)
 - e. Main Stack TSP - 1,435 lbs (verified by annual source test and CERMS)
 - f. Clinker Cooler Stack TSP (Q2 clinker cooler only) - 699 lbs (verified by annual source test and clinker production)
6. The following are the acceptability testing requirements for the CEMS and COMS:
 - a. For COMS (Opacity) - Performance Specification 1 of 40 CFR 60 Appendix B.
 - b. For SO₂ and NO_x CEMS - Performance Specification 2 of 40 CFR 60 Appendix B.
 - c. For O₂ CEMS - Performance Specification 3 of 40 CFR 60 Appendix B.
 - d. For VOC CEMS - Performance Specification 4 of 40 CFR 60 Appendix B.
 - e. For main stack TSP (stack gas flow rate) - Performance Specification 6 of 40 CFR 60 Appendix B.
7. The emissions of CO, NO_x, SO_x and O₂ for kiln Q2 shall be monitored using a Continuous Emissions Monitoring System (CEMS). The Q2 stack gas flow rate shall be monitored using a continuous Emission Rate Monitoring System (CERMS). The Q2 stack gas opacity shall be monitored using a Continuous Opacity Monitoring System (COMS).

This equipment shall be operated in compliance with a District-approved CEMS protocol.

8. The o/o shall submit a written report of excess emissions to the District Compliance Supervisor for every semi-annual reporting period. All semi-annual reports shall be postmarked by the 30th day following the end of each semi-annual reporting period.
9. Kiln Q2 may use internally generated spent UNOCAL Gearite as a supplemental fuel. This material shall maintain its status as non-hazardous by the Department of Health Services of the State of California. This material replaces a portion of primary fuel to the precalciner/kiln and is limited to a maximum rate of 2.5 gallons per minute. A log shall be maintained which includes the amount, date, rate, and cumulative total of gallons burned. (Ref. Letter from SWPC dated 10/29/90 with test results.)
10. Kiln Q2 may use Tire Derived Fuel (TDF) as a supplemental fuel. The TDF may be either whole or chipped tires or a combination of both. The feed rate of TDF being utilized shall not exceed 29% of the total Btu content being fed into the kiln for any single hourly average or 26% on any 24-hour average basis.
11. Southdown Victorville Cement Plant (o/o) may utilize TDF only if all other applicable regulatory permits associated with storage and handling of TDF are obtained.
12. Daily logs shall be maintained for the operation of Q2, which include but is not limited to the following:
 - A. Hours of operation/day.
 - B. Dates of routine maintenance.
 - C. Dates of major repairs and/or replacements.
 - D. Type of fuel being used and the Btu/hr of each.
 - E. Mass of tires burned.
 - F. Mass of filters changed.
 - G. Mass of each of the following:
 1. Used bags from dust collectors.
 2. Containers which contain the oil/grease contaminated rags/adsorbents.
 - H. Daily emissions of Kiln Q2 (this data shall be submitted to the District within 30 days of the end of each semi-annual reporting period).
13. Kiln Q2 may use low level hydrocarbon contaminated soil (sand) from LUST remediation on the o/o's other facilities, i.e. Victorville and Apple Valley, as an alternate source of silica in the kiln feed. Excavation, loading and handling of this material will be monitored by the Lahontan Regional Water Quality Board, and are subject to their rules.

14. Kiln Q2 may use furnace ash generated from incineration of sewage and spent abrasive blasting material as alternate sources of silica, iron or alumina. Authority for this condition is subject to the conditions included in California Department of Toxic Substances Control Variance, serial number V-091-2 ATD/ATU and is valid only when the variance is in effect. A protocol for the air emissions testing at the conclusion of the demonstration period shall be approved by the District and the District shall be notified 10 days prior to the actual start of the testing.
15. Kiln Q2 may have drained oil filters added into the system via the precalciner tower airlock. These filters may only originate from Southdown, Inc. generated in California from their equipment and used as an alternate source of iron for the clinkering process. Filters shall not be added at a rate in excess of 5.5 lb/ton of kiln feed. Filters shall not be charged into the system unless all CEMS and COMS are on line and functioning according to the specifications recommended by the manufacturer/supplier.
16. The o/o shall be limited to using only the following materials which are generated by Southdown, Inc. in California, as substitutes for raw materials in this Q2 system: Ultrasorb 248, Tribol's Molub-Alloy, used bags from dust collectors, shop rags any or all of which may have variable quantities of Unocal products such as but not limited to Drillube 320, Turbine Oils (100 and 450), Unax AW (46 and 68), HiTemp EP Grease 2, Multiplex EP2, Unoba Grease (2 and 0), MP Gear Lube LS 85W-140, Extra Duty NL Gear Lube (2EP, 4EP, 5EP, 6EP, and 7 EP).
17. The o/o is limited to using 400 pounds/day of those materials listed in Condition 16 above including those containers which the o/o places them into for use.
18. The o/o shall use the TDF chute for the addition of those materials and containers described in Conditions 15 and 16 above, under the same utilization limit as TDF.
19. This kiln Q2 may be fueled or fired with coal, natural gas, fuel oil, petroleum coke, TDF, Gearite and other materials as specified in the conditions above, and shall comply with all emission limits in these conditions irrespective of the fuel or fuel mixture.
20. The o/o shall perform the following annual compliance tests in accordance with a District-approved test plan and the MDAQMD Compliance Test Procedural Manual. A written report with the results of the test shall be submitted within forty-five (45) days after testing. The following compliance tests are required each year:
 - a. VOC (Q2 main kiln stack) as CH₄ in ppmvd, lbs/hr and lbs/ton of clinker (measured per USEPA reference Methods 25A and 18 or the equivalent);
 - b. TSP (Q2 main kiln stack) in mg/m³, lbs/hr and lbs/ton of clinker (measured per

USEPA Reference Methods 5 and 201A/202, or CARB Method 5); and,
c. TSP (Q2 clinker cooler) in lbs/hr and lbs/ton of clinker (measured per USEPA Reference Methods 5 and 201A/202, or CARB Method 5).

25. AIR POLLUTION CONTROL EQUIPMENT (GBH2) - MDAQMD PERMIT # C001090; consisting of:

Serving Kiln 2Q (B001083).

GBH2 - Dust Collector - Reverse air Mikro Pul with 2,592 glass bags 11-1/2" dia x 31.5"L. Gross cloth area 247,020 sq.ft., 400,000 ACFM @ 400 degrees F, 1.32:1 A/C ratio with four 30 hp heat exchanger fans, one 125 hp 30,878 ACFM collapse blower and one Solvent-Ventec type DX239 3TD8A, 1,475 hp exhaust fan 34F1 discharging to atmosphere via stack. 1,720 hp.

PERMIT CONDITIONS; (UNLESS OTHERWISE STATED ALL CONDITIONS RESULT FROM RULE 204 - PERMIT CONDITIONS; VERSION IN SIP = CARB EX. ORDER G-73, 40 CFR 52.220(C)(39)(II)(B) - 11/09/78 43 FR 52237; CURRENT RULE VERSION = 07/25/77:

1. The owner/operator (o/o) shall operate this particulate control equipment in strict accordance with the manufacturer's specifications and/or sound engineering principles.
2. The o/o shall maintain a log of all inspections, repairs, and maintenance on this equipment and submit it to the District on request. The log shall be kept for a minimum period of five years.
3. The o/o shall maintain on-site, as a minimum, an inventory of replacement bags that assures compliance with applicable Rules of District Regulation IV.

26. AIR POLLUTION CONTROL EQUIPMENT (GGF2) - MDAQMD PERMIT # C001091; consisting of:

Serving Kiln 2Q (B001083).

GGF2 - Gravel bed filter - Lurgi DS type model 2x4/4 DDS 28/N 28 16 modules 9.19' dia with two beds per module. Total bed area 1,963 sq.ft. Filter media quartz +0.1-0.2" with 28 hydraulically actuated air locks, four 40 hp 9,420 CFM scavenging fans, sixteen 5 hp rake drives, one 4 hp hydraulic pump drive, and one Solvent - Ventec FP 254-3TD8A 1,475 hp exhaust fan with stack for 150,000 ACFM @ 280 degrees F (exit conditions). Also included via 1990 up-grade is one Fuller custom designed 49,626 sq.ft. air to air heat exchanger with stilling chamber, drop out box, six 30 hp cooling fans and two 10 hp screw

conveyors added to the incoming hot air duct system. 1,919 hp.

PERMIT CONDITIONS; (UNLESS OTHERWISE STATED ALL CONDITIONS RESULT FROM RULE 204 - PERMIT CONDITIONS; VERSION IN SIP = CARB EX. ORDER G-73, 40 CFR 52.220(C)(39)(II)(B) - 11/09/78 43 FR 52237; CURRENT RULE VERSION = 07/25/77:

1. The owner/operator (o/o) shall operate this particulate control equipment in strict accordance with the manufacturer's specifications and/or sound engineering principles.
2. The o/o shall maintain a log of all inspections, repairs, and maintenance on this equipment and submit it to the District on request. The log shall be kept for a minimum period of five years.
3. The o/o shall maintain on-site, as a minimum, an inventory of replacement bags that assures compliance with applicable Rules of District Regulation IV.

27. AIR POLLUTION CONTROL EQUIPMENT (EBH5) - MDAQMD PERMIT # C001299; consisting of:

Serving Kiln 2Q raw material feed (B001083).

EBH5 - Dust Collector, pulse jet type Flexkleen with 64 5.84: dia x 10' felted polyester bags (979 sq.ft.), 5,500 ACFM, 30 hp exhaustor (A/C ratio 5:6) and 3/4 hp rotary air lock.

PERMIT CONDITIONS; (UNLESS OTHERWISE STATED ALL CONDITIONS RESULT FROM RULE 204 - PERMIT CONDITIONS; VERSION IN SIP = CARB EX. ORDER G-73, 40 CFR 52.220(C)(39)(II)(B) - 11/09/78 43 FR 52237; CURRENT RULE VERSION = 07/25/77:

1. Particulate emissions shall not exceed a discharge grain loading of .02 grains per actual cubic foot.
2. The owner/operator (o/o) shall operate this particulate control equipment in strict accordance with the manufacturer's specifications and/or sound engineering principles.
3. The o/o shall maintain a log of all inspections, repairs, and maintenance on this equipment and submit it to the District on request. The log shall be kept for a minimum period of five years.

4. The o/o shall maintain on-site, as a minimum, an inventory of replacement bags that assures compliance with applicable Rules of District Regulation IV.

28. K2 G-COOLER DUST COLLECTOR (GGC BH) - MDAQMD PERMIT # C005190; consisting of:

3100 sq ft of Nomex bags with an exhaust of 18,600 acfm at 350 deg Fahrenheit
Dust Collector Fan GGCC1
Tipping Valves GGCBHTU1 - A and -B
Screw Conveyor GGSC1
Screw Conveyor GGSC2

PERMIT CONDITIONS; (UNLESS OTHERWISE STATED ALL CONDITIONS RESULT FROM RULE 204 - PERMIT CONDITIONS; VERSION IN SIP = CARB EX. ORDER G-73, 40 CFR 52.220(C)(39)(II)(B) - 11/09/78 43 FR 52237; CURRENT RULE VERSION = 07/25/77:

1. The owner/operator (o/o) shall install, operate and maintain this dust collector in strict accord with those recommendations of the manufacturer/supplier, and sound engineering principles, which produce minimum emissions of air contaminants.
2. The o/o shall institute a program of maintenance which embraces; visible emission determinations performed according to the frequency outlined in the attached summary Table entitled "MACT Standard -- Portland Cement Manufacturing Industry", monthly visual inspections of all associated equipment (inclusive of the bags and their suspensions system) in accordance with 40CFR Part 63.1350, and regular (to be determined with experience with this unit) measurements of the pressure differential across the bags.
3. The o/o shall log all the items in 2 above in addition to the bag replacements, repairs and non-scheduled maintenance. The log shall be kept current, on-site for a minimum of 5 years and provided to District personnel on request.
4. The o/o shall maintain an inventory of replacement bags on-site at all times which will ensure compliance with applicable Rules of District Regulation IV.
5. The o/o shall install and maintain a device which measures the pressure differential across the bags if one has not been provided with this unit.
6. This baghouse shall operate concurrently with Kiln No. 2 G-Cooler under valid District permit number B001083.

**29. COAL/COKE TRANSFER EQUIPMENT - MDAQMD PERMIT # B001085;
consisting of:**

Bins 1 and 2

Belt Conveyor (FBC2)

PERMIT CONDITIONS; (UNLESS OTHERWISE STATED ALL CONDITIONS
RESULT FROM RULE 204 - PERMIT CONDITIONS; VERSION IN SIP = CARB EX.
ORDER G-73, 40 CFR 52.220(C)(39)(II)(B) - 11/09/78 43 FR 52237; CURRENT RULE
VERSION = 07/25/77:

1. Materials processed shall contain sufficient natural moisture to ensure compliance with Rule 401, 402, and 403. Water equipment to properly wet dried out material being processed shall be maintained in operable condition on the site and used as necessary to assure compliance.

**30. COAL UNLOADING SYSTEM - MDAQMD PERMIT # B001264; consisting of:
Railroad car.**

PERMIT CONDITIONS; (UNLESS OTHERWISE STATED ALL CONDITIONS
RESULT FROM RULE 204 - PERMIT CONDITIONS; VERSION IN SIP = CARB EX.
ORDER G-73, 40 CFR 52.220(C)(39)(II)(B) - 11/09/78 43 FR 52237; CURRENT RULE
VERSION = 07/25/77:

1. Materials processed shall contain sufficient natural moisture to ensure compliance with Rule 401, 402, and 403. Water equipment to properly wet dried out material being processed shall be maintained in operable condition on the site and used as necessary to assure compliance.

**31. CLINKER TRANSFER SYSTEM TO OUTSIDE STORAGE - MDAQMD PERMIT
B001672; consisting of:**

Control: C004870 (HBH24)

Conveyor - HBC1

Stacker - HBC2

PERMIT CONDITIONS; (UNLESS OTHERWISE STATED ALL CONDITIONS
RESULT FROM RULE 204 - PERMIT CONDITIONS; VERSION IN SIP = CARB EX.

ORDER G-73, 40 CFR 52.220(C)(39)(II)(B) - 11/09/78 43 FR 52237; CURRENT RULE
VERSION = 07/25/77:

1. This equipment shall not be operated unless it is vented to functioning air pollution control equipment covered by valid District permit C004871.

32. BAGHOUSE (HBH24) - MDAQMD PERMIT # C004870; consisting of:

Serving a transfer point between conveyors HBC1 and HBC2 which transfer clinker to outside storage (B001672) with the following specifications:

Mfg. By Flex-Kleen

Model No. 120-WSTS-49 Arr. III

Exhaust Fan: 15 hp and 4,000 cfm

Air to Cloth: 5.3:1 and 750 ft²

PERMIT CONDITIONS; (UNLESS OTHERWISE STATED ALL CONDITIONS
RESULT FROM RULE 204 - PERMIT CONDITIONS; VERSION IN SIP = CARB EX.
ORDER G-73, 40 CFR 52.220(C)(39)(II)(B) - 11/09/78 43 FR 52237; CURRENT RULE
VERSION = 07/25/77:

1. The owner/operator (o/o) shall operate/maintain this equipment in strict accord with recommendations of the manufacturer and/or sound engineering practices.
2. The operating instructions shall be immediately available for use by the operator and provided to District personnel upon request.
3. This equipment shall be operated concurrently with the Conveyors HBC1 and HBC2 which transfer clinker to outside storage covered in District permit B001672.
4. The o/o shall have a continuing program of maintenance/inspections in accord with manufacturer's recommendations and specifications which ensures compliance with District Rules. This program shall include, but not be limited to, regular opacity readings, pressure differential measurements, and maintenance inspections. Logging of these data shall be required with the log kept on-site for a minimum of five years. This log shall be provided to District personnel on request.

33. CLINKER OUTSIDE STORAGE RECLAIM SYSTEM - MDAQMD PERMIT # B007709; consisting of:

Outside "fringe" clinker storage pile belt conveyor and related equipment, feeding the

clinker rock ladder.
Weigh Feeder HWF-1
Weigh Feeder HWF-2
Vibratory Feeder VF-5
Vibratory Feeder VF-6
Vibratory Feeder VF-8
Vibratory Feeder VF-10
Vibratory Feeder VF-11
Vibratory Feeder VF-12
Belt Conveyor HBC -12

PERMIT CONDITIONS; (UNLESS OTHERWISE STATED ALL CONDITIONS
RESULT FROM RULE 204 - PERMIT CONDITIONS; VERSION IN SIP = CARB EX.
ORDER G-73, 40 CFR 52.220(C)(39)(II)(B) - 11/09/78 43 FR 52237; CURRENT RULE
VERSION = 07/25/77:

1. The owner/operator (o/o) shall operate and maintain this equipment in strict accord with recommendations of the manufacturer and/or sound engineering practices.
2. This equipment shall not be operated unless the baghouse covered by District Permit C004871 under permit B000085 Group #4 is in operation.

34. BAGHOUSE (HBH23) - MDAQMD PERMIT # C004871; consisting of:

A baghouse at an elevator which serves the clinker railcar loading area (B000085) and the clinker outside storage reclaim system (B007709), manufactured by Flex-Kleen, Model No. 120-WSTS-49 Arr. III, with a 15 hp exhaust fan generating 4000 cfm through 750 sqft of bags (air to cloth of 5.3:1).

PERMIT CONDITIONS; (UNLESS OTHERWISE STATED ALL CONDITIONS
RESULT FROM RULE 204 - PERMIT CONDITIONS; VERSION IN SIP = CARB EX.
ORDER G-73, 40 CFR 52.220(C)(39)(II)(B) - 11/09/78 43 FR 52237; CURRENT RULE
VERSION = 07/25/77:

1. The owner/operator (o/o) shall operate/maintain this equipment in strict accord with recommendations of the manufacturer and/or sound engineering practices.
2. The operating instructions shall be immediately available for use by the operator and provided to District personnel upon request.

3. This equipment shall be operated concurrently with the Elevator which serves the clinker railcar loading area covered in District permit B000085 and the belt conveyor which serves the outside clinker storage pile reclaim system covered in District Permit B007709.
4. The o/o shall have a continuing program of maintenance/inspections in accord with manufacturer's recommendations and specifications which ensures compliance with District Rules. This program shall include, but not be limited to, regular opacity readings, pressure differential measurements, and maintenance inspections. Logging of these data shall be required with the log kept on-site for a minimum of five years. This log shall be provided to District personnel on request.
5. Within sixty days of initial start-up, the o/o shall conduct a compliance test in accordance with the District Compliance Test Procedural Manual. This test is required to show compliance with permit conditions and Rules 404 and 405. The District shall be notified at least 10 working days prior to the test date. The test report shall be submitted to the District within 45 days following the tests.

35. CLINKER TRANSFER SYSTEM - STORAGE SILO NO. 1 - MDAQMD PERMIT # B001673; consisting of:

Control: C001301 HBH3) 20 hp.

PERMIT CONDITIONS; (UNLESS OTHERWISE STATED ALL CONDITIONS RESULT FROM RULE 204 - PERMIT CONDITIONS; VERSION IN SIP = CARB EX. ORDER G-73, 40 CFR 52.220(C)(39)(II)(B) - 11/09/78 43 FR 52237; CURRENT RULE VERSION = 07/25/77:

1. This equipment shall not be operated unless it is vented to the functioning air pollution control equipment covered by District valid permit No. C001301.

36. AIR POLLUTION CONTROL EQUIPMENT (HBH 3) - MDAQMD PERMIT # C001301; consisting of:

Serving 6,000 ton North Silo No. 1 (B001673).

HBH3 - Dust Collector, pulse jet type Flexkleen 120-BVTC-36 (III) with 36 5.84" dia x 10' 16 oz. felted polyester bags and 2,600 CFM 20 hp Buffalo 45 PW fan. (A/C ratio 4.7:1). Returns dust to silo on which unit is mounted. 20 hp.

PERMIT CONDITIONS; (UNLESS OTHERWISE STATED ALL CONDITIONS RESULT FROM RULE 204 - PERMIT CONDITIONS; VERSION IN SIP = CARB EX.

ORDER G-73, 40 CFR 52.220(C)(39)(II)(B) - 11/09/78 43 FR 52237; CURRENT RULE
VERSION = 07/25/77:

1. Particulate emissions shall not exceed a discharge grain loading of .02 grains per actual cubic foot.
2. The owner/operator (o/o) shall operate this particulate control equipment in strict accordance with the manufacturer's specifications and/or sound engineering principles.
3. The o/o shall maintain a log of all inspections, repairs, and maintenance on this equipment and submit it to the District on request. The log shall be kept for a minimum period of five years.
4. The o/o shall maintain on-site, as a minimum, an inventory of replacement bags that assures compliance with applicable Rules of District Regulation IV.

37. CLINKER TRANSFER SYSTEM - STORAGE SILO NO. 2 - MDAQMD PERMIT # B001674; consisting of:

Control: C001302 (HBH4) 25 hp.

PERMIT CONDITIONS; (UNLESS OTHERWISE STATED ALL CONDITIONS
RESULT FROM RULE 204 - PERMIT CONDITIONS; VERSION IN SIP = CARB EX.
ORDER G-73, 40 CFR 52.220(C)(39)(II)(B) - 11/09/78 43 FR 52237; CURRENT RULE
VERSION = 07/25/77:

1. This equipment shall not be operated unless it is vented to the functioning air pollution control equipment covered by District valid permit No. C001302.

38. AIR POLLUTION CONTROL EQUIPMENT (HBH 4) - MDAQMD PERMIT # C001302; consisting of:

Serving South Clinker Storage Silo (B001674).

HBH4 - Dust Collector, pulse jet type Flexkleen 120-WRTC-64 (III) with 64 5.84" dia x 10' 16 oz. felted polyester bags and 4,600 CFM, 25 hp Buffalo 45 PW fan. A/C ratio 4.7:1. Returns dust to silo on which unit is mounted.

PERMIT CONDITIONS; (UNLESS OTHERWISE STATED ALL CONDITIONS
RESULT FROM RULE 204 - PERMIT CONDITIONS; VERSION IN SIP = CARB EX.
ORDER G-73, 40 CFR 52.220(C)(39)(II)(B) - 11/09/78 43 FR 52237; CURRENT RULE

VERSION = 07/25/77:

1. Particulate emissions shall not exceed a discharge grain loading of .02 grains per actual cubic foot.
2. The owner/operator (o/o) shall operate this particulate control equipment in strict accordance with the manufacturer's specifications and/or sound engineering principles.
3. The o/o shall maintain a log of all inspections, repairs, and maintenance on this equipment and submit it to the District on request. The log shall be kept for a minimum period of five years.
4. The o/o shall maintain on-site, as a minimum, an inventory of replacement bags that assures compliance with applicable Rules of District Regulation IV.

39. CLINKER TRANSFER SYSTEM - STORAGE DOME - MDAQMD PERMIT # B001675; consisting of:

Controls: C001297 (HBH1); C001298 (HBH2); C001303 (HBH5)

PERMIT CONDITIONS; (UNLESS OTHERWISE STATED ALL CONDITIONS RESULT FROM RULE 204 - PERMIT CONDITIONS; VERSION IN SIP = CARB EX. ORDER G-73, 40 CFR 52.220(C)(39)(II)(B) - 11/09/78 43 FR 52237; CURRENT RULE VERSION = 07/25/77:

1. This equipment shall not be operated unless it is vented to the functioning air pollution control equipment covered by District valid permit Nos. C001297, C001298 and C001303.

40. AIR POLLUTION CONTROL EQUIPMENT (HBH 1) - MDAQMD PERMIT # C001297; consisting of:

Serving South Clinker Conveyor HBC5 (B001675).

HBH1 - Dust Collector, pulse jet Flexkleen 120-BVTC-36 (III) with 36 5.84" dia x 10' 16 oz. felted polyester bags and 3,000 CFM, 20 hp Buffalo 45 PW fan. A/C ratio 5.4:1 and returns dust to conveyor HBC7. 20 hp.

PERMIT CONDITIONS; (UNLESS OTHERWISE STATED ALL CONDITIONS RESULT FROM RULE 204 - PERMIT CONDITIONS; VERSION IN SIP = CARB EX. ORDER G-73, 40 CFR 52.220(C)(39)(II)(B) - 11/09/78 43 FR 52237; CURRENT RULE

VERSION = 07/25/77:

1. Particulate emissions shall not exceed a discharge grain loading of .02 grains per actual cubic foot.
2. The owner/operator (o/o) shall operate this particulate control equipment in strict accordance with the manufacturer's specifications and/or sound engineering principles.
3. The o/o shall maintain a log of all inspections, repairs, and maintenance on this equipment and submit it to the District on request. The log shall be kept for a minimum period of five years.
4. The o/o shall maintain on-site, as a minimum, an inventory of replacement bags that assures compliance with applicable Rules of District Regulation IV.

41. AIR POLLUTION CONTROL EQUIPMENT (HBH 2) - MDAQMD PERMIT # C001298; consisting of:

Serving 20,000-ton Clinker Storage Vessel (B001675).

HBH2 - Dust Collector, pulse jet type Flexkleen 120-WATC-96 (III) with 96 5.84" dia x 10' 16 oz. felted polyester bags (1,469 sq.ft.) and 8,000 CFM, Buffalo 45 MW fan. A/C ratio 5.4:1 returns dust to 20,000-ton clinker vessel. 40 hp.

PERMIT CONDITIONS; (UNLESS OTHERWISE STATED ALL CONDITIONS RESULT FROM RULE 204 - PERMIT CONDITIONS; VERSION IN SIP = CARB EX. ORDER G-73, 40 CFR 52.220(C)(39)(II)(B) - 11/09/78 43 FR 52237; CURRENT RULE VERSION = 07/25/77:

1. Particulate emissions shall not exceed a discharge grain loading of .02 grains per actual cubic foot.
2. The owner/operator (o/o) shall operate this particulate control equipment in strict accordance with the manufacturer's specifications and/or sound engineering principles.
3. The o/o shall maintain a log of all inspections, repairs, and maintenance on this equipment and submit it to the District on request. The log shall be kept for a minimum period of five years.
4. The o/o shall maintain on-site, as a minimum, an inventory of replacement bags that assures compliance with applicable Rules of District Regulation IV.

**42. AIR POLLUTION CONTROL EQUIPMENT - MDAQMD PERMIT # C001303;
consisting of:**

Serving Clinker Transfer System to Storage Dome (B001675).

HBH5 - Dust Collector - pulse jet type - Flexkleen 120-WRTC-80 (III) with 8-0 5.84" dia x 10' 16 oz. polyester felt bags with 6,500 CFM Buffalo 45 MW fan. A/C ratio 5.3:1. Discharging to Belt HC1. 30 hp.

PERMIT CONDITIONS; (UNLESS OTHERWISE STATED ALL CONDITIONS RESULT FROM RULE 204 - PERMIT CONDITIONS; VERSION IN SIP = CARB EX. ORDER G-73, 40 CFR 52.220(C)(39)(II)(B) - 11/09/78 43 FR 52237; CURRENT RULE VERSION = 07/25/77:

1. Particulate emissions shall not exceed a discharge grain loading of .02 grains per actual cubic foot.
2. The owner/operator (o/o) shall operate this particulate control equipment in strict accordance with the manufacturer's specifications and/or sound engineering principles.
3. The o/o shall maintain a log of all inspections, repairs, and maintenance on this equipment and submit it to the District on request. The log shall be kept for a minimum period of five years.
4. The o/o shall maintain on-site, as a minimum, an inventory of replacement bags that assures compliance with applicable Rules of District Regulation IV.

43. SILO - CLINKER STORAGE (1104) - MDAQMD PERMIT # T001997; consisting of:

Clinker Silo, North - 141 MCF

Clinker Silo, South - 141 MCF

Clinker Dome (pile)

PERMIT CONDITIONS; (UNLESS OTHERWISE STATED ALL CONDITIONS RESULT FROM RULE 204 - PERMIT CONDITIONS; VERSION IN SIP = CARB EX. ORDER G-73, 40 CFR 52.220(C)(39)(II)(B) - 11/09/78 43 FR 52237; CURRENT RULE VERSION = 07/25/77:

1. The Clinker Silos shall not be filled unless they are vented to the appropriate functioning

air pollution control equipment covered by valid District permit Nos. C001301 and C001302, each of which are included under B001673 and B001674, respectively.

44. BULK TRUCK & SUPER SACK LOADOUT FACILITY - MDAQMD PERMIT # B002709; consisting of:

For dust from Kiln 1Q. Control: C002710 (GWDBH)

Airslide, 16" x 18'

Blower IAP, model 11-15, 460 CFM - GWDACB

Telescoping Loading Spout, 12" ID, 3'10" retracted length with 9' travel. Two Budget Cat G356-1R 500 lb capacity, 1/2 hp Hoists.

PERMIT CONDITIONS; (UNLESS OTHERWISE STATED ALL CONDITIONS RESULT FROM RULE 204 - PERMIT CONDITIONS; VERSION IN SIP = CARB EX. ORDER G-73, 40 CFR 52.220(C)(39)(II)(B) - 11/09/78 43 FR 52237; CURRENT RULE VERSION = 07/25/77:

1. This equipment shall not be operated unless it is vented to the functioning air pollution control equipment covered by District valid permit No. C002710.

45. AIR POLLUTION CONTROL EQUIPMENT (GWDBH) - MDAQMD PERMIT # C002710; consisting of:

Serving 1Q Bulk Kiln Dust Loadout System (B002709).

GWDBH - Dust Collector, Fabric, WW SLY Model PS-5, 440 ft2 with Shaker, Flow Rate: 1,460 CFM @ 110 degrees F; 0.33 hp.

GWDBHF - Fan, integral with GWDBH; 5 hp.

Total hp = 5.33

PERMIT CONDITIONS; (UNLESS OTHERWISE STATED ALL CONDITIONS RESULT FROM RULE 204 - PERMIT CONDITIONS; VERSION IN SIP = CARB EX. ORDER G-73, 40 CFR 52.220(C)(39)(II)(B) - 11/09/78 43 FR 52237; CURRENT RULE VERSION = 07/25/77:

1. The owner/operator (o/o) shall operate this particulate control equipment in strict accordance with the manufacturer's specifications and/or sound engineering principles.
2. The o/o shall maintain a log of all inspections, repairs, and maintenance on this equipment and submit it to the District on request. The log shall be kept for a minimum period of five years.

3. The o/o shall maintain on-site, as a minimum, an inventory of replacement bags that assures compliance with applicable Rules of District Regulation IV.

GROUP # 3B - CLINKER BURNING & COOLING

46. **KILN (Q3) AND CLINKER COOLER SYSTEM - MDAQMD PERMIT # B005362;**
consisting of:

Coal milling, a pre-heater/pre-Calcliner kiln, and a clinker cooler assembly. Note that horsepower ratings have been converted to heat input assuming 2550 Btu per horsepower.

Kiln Feed System

Belt Conveyors

Elevator

Calibration System

Dust Return System

Pre-Calcliner

Pre-Heater

Kiln (Q3), which is rated at 625 millions Btu/h input

Induced Draft Fan

Clinker Cooler Cyclone Separator

Clinker Cooler Heat Exchanger

Pan Conveyor

Screw Conveyors

Feeders

Coal Mill (Raymond Mill FCM4 Bin)

Primary Air Fan

Drag Conveyors

Clinker Breakers

Clinker Cooler Fans

Discharge Gate Drives

PERMIT CONDITIONS; (UNLESS OTHERWISE STATED ALL CONDITIONS
RESULT FROM RULE 204 - PERMIT CONDITIONS; VERSION IN SIP = CARB EX.
ORDER G-73, 40 CFR 52.220(C)(39)(II)(B) - 11/09/78 43 FR 52237; CURRENT RULE
VERSION = 07/25/77:

1. The owner/operator, o/o, shall install, operate and maintain the equipment described on

this permit in compliance with all data and specifications submitted with the application under which this permit is issued unless specifically exempted in other conditions hereon.

2. This equipment shall not be operated unless it is vented to the properly functioning baghouses GBH 3, HBH 25, FBH4P1 under valid District permit numbers C007368, C007347, C007359.
3. The sulfur content requirements of Rule 431 shall be complied with through the SO_x emissions limits presented below, in accordance with Rule 431(g).
4. The emissions from Q3 shall not exceed the following, in lb/ton clinker, calculated on a 30-day rolling average basis:

NO _x	2.8
SO _x	0.35
VOC	0.12
TSP-Kiln Stack	0.14
Opacity:	20%
5. The requirements for oxides of nitrogen above shall not apply during start-up and during the first 36 hours of operation following start-up nor during the 36 hours immediately preceding shut-down. During those calendar days, from midnight to midnight, when these start-ups and shut-downs occur, the total oxides of nitrogen from Q2 and Q3 shall not exceed those described below.
6. The emissions from Q3 and Q2, in lb/day on a 30-day rolling average basis shall not exceed the following:

NO _x	42,207
SO _x	4,220
CO	27,522
VOC	2,139
PM	1,435 (This is from the main stacks of both kilns)
PM	699 (This from Q2 main clinker cooler stack only, in that Q3 has no vent.

For the testing requirements, please see the baghouse NBH 9 serving kiln Q3.
7. Compliance with the emissions limits described above shall be determined by using CEMS data and calculating an arithmetic average of the previous 30 days (day is defined as any 24-hour period beginning at midnight).
8. The daily emissions for each operating day for kiln Q3 shall be recorded and/or calculated in a manner approved by the District. The data shall be submitted to the District within 30

days of the end of each semi-annual reporting period.

9. The daily emissions of the following contaminants shall be monitored using a Continuous Emissions System (CEMS): NO_x, SO_x, and CO. The stack gas volumetric flow rate shall be monitored using a Continuous Emission Rate Monitoring System (CERMS). The stack gas opacity shall be monitored using a Continuous Opacity Monitoring System (COMS). VOC can be reasonably expected to be much lower than that proposed and for this reason, testing will be required on an annual basis in accordance to USEPA method 25A, or equivalent method, after the initial compliance testing.
10. The following are the acceptability testing requirements for the CEMS, CERMS and COMS:
 - A. For COMS - Performance Specification 1 of 40 CFR 60, appendix B;
 - B. For SO₂ and NO_x CEMS - Performance Specification 2 of 40 CFR 60, appendix B;
 - C. For O₂ CEMS - Performance Specification 3 of 40 CFR 60, appendix B;
 - D. For CO CEMS - Performance Specification 4 of 40 CFR 60, appendix B; and
 - E. For CERMS - Performance Specification 6 of 40 CFR 60, appendix B.COMS, CEMS and CERMS have the same meaning as in condition 4 above.
11. The District requires an approved quality assurance program for CEMS. The program shall be in strict accord with 40 CFR 60, appendix F and shall include sulfur dioxide, nitrogen oxides, oxygen and carbon monoxide for CEMS as well as for COMS and CERMS.
12. The o/o shall submit a written report of excess emissions to the District Compliance Supervisor for every semi-annual reporting period. All semi-annual reports shall be postmarked by the 30th day following the end of each semi-annual reporting period.
13. All logs required under this permit shall be maintained current, on-site for a minimum of 5 years and provided to District personnel on request.
14. Daily logs shall be kept for the operation of kiln Q3. These logs shall include, but not necessarily be limited to the following:
 - A. Hours of operation per day, h/d;
 - B. Dates of routine maintenance;
 - C. Dates of major repairs and scheduled shut-downs;
 - D. Type and Btu/h of fuel(s) being used;
 - E. Tons of raw material, excluding coal charged to the kiln; and
 - F. Tons of clinker produced (this datum shall be calculated by an equation similar to the following, which is used for kiln Q2:

Clinker, T/H = kiln feed scale reading X 1/1.575 X F. F is the correction factor for the actual weight of clinker and 1/1.575 is the conversion factor from ton of feed to ton of clinker all of which will be incorporated into the software for the emissions measurement instrumentation.

15. This unit may be fueled or fired with coal, natural gas, fuel oil, petroleum coke, and fuel supplements (as specifically allowed in these conditions). All emission limitations specified in these conditions apply irrespective of fuel or fuel mixture.
16. This equipment may be fired with supplemental fuels. Any use of supplemental fuels shall be reflected on the daily log on an individual category basis, including date of use, amount used, rate of use, and cumulative annual use to date. The following materials and rates are allowed:
 - a. UNOCAL Gearite (internally generated), up to 2.5 gallons per minute;
 - b. Tire Derived Fuel (TDF) as whole or chipped tires or a combination thereof, via a TDF chute, as up to 29% of the total BTU kiln feed rate for any hour or 26% on a 24 hour average basis;
 - c. LUST remediation sand from CEMEX Victorville and Apple Valley facilities, as kiln feed;
 - d. Used Oil Filters from CEMEX California operations via a TDF chute, up to 5.5 lb/ton of kiln feed; and
 - e. Materials from CEMEX California operations via a TDF chute, specifically Ultrasorb 248, Tirbol Molub-Alloy, used dust collector bags, and used shop rags, up to 400 lbs/day including containers.

47. MAIN BAGHOUSE (GBH 3) WHICH SERVES KILN (Q3) AND CLINKER COOLER SYSTEM 3Q - MDAQMD PERMIT # C007368; consisting of:

A baghouse to withstand 485 degrees F and handle a flow rate of 520,000 ACFM. When final contracts have been let, more specific details may be added, but the final installation used will define the final permit.

PERMIT CONDITIONS; (UNLESS OTHERWISE STATED ALL CONDITIONS RESULT FROM RULE 204 - PERMIT CONDITIONS; VERSION IN SIP = CARB EX. ORDER G-73, 40 CFR 52.220(C)(39)(II)(B) - 11/09/78 43 FR 52237; CURRENT RULE VERSION = 07/25/77:

1. The owner/operator (o/o) shall install, operate and maintain this dust collector in strict accord with those recommendations of the manufacturer/supplier, and sound engineering principles, which produce minimum emissions of air contaminants.

2. The o/o shall institute a program of maintenance which embraces; visible emission determinations performed according to the frequency outlined in the attached summary Table entitled "MACT Standard -- Portland Cement Manufacturing Industry", monthly visual inspections of all associated equipment (inclusive of the bags and their suspensions system) in accordance with 40CFR Part 63.1350, and regular (to be determined with experience with this unit) measurements of the pressure differential across the bags.
3. The o/o shall log all the items in 2 above in addition to the bag replacements, repairs and non-scheduled maintenance. The log shall be kept current, on-site for a minimum of 5 years and provided to District personnel on request.
4. The o/o shall maintain an inventory of replacement bags on-site at all times which will ensure compliance with applicable Rules of District Regulation IV.
5. The o/o shall install, operate and maintain a continuous emissions measurements and monitoring system as described in the Kiln Q-3 permit under valid District permit B005362. This device shall measure and record those parameters in the units described in that permit.
6. This baghouse shall operate concurrently with the Kiln Q-3 and its associated Clinker Cooler; under valid District permit number B005362.
7. This baghouse shall discharge no more than 727 lb/day on a 30-day rolling average basis, pursuant to the operating conditions described above.
8. Opacity measurements shall not exceed 20% aggregated for more than 30 minutes in any 1-hour period, consistent with District Rule 401.

48. BAGHOUSE - HBH25, WHICH SERVES THE KILN Q-3 CLINKER PAN CONVEYOR - MDAQMD PERMIT # C007347; consisting of:
Baghouse with Nomex bags operating at 250 degrees F and 7500 ACFM

PERMIT CONDITIONS; (UNLESS OTHERWISE STATED ALL CONDITIONS RESULT FROM RULE 204 - PERMIT CONDITIONS; VERSION IN SIP = CARB EX. ORDER G-73, 40 CFR 52.220(C)(39)(II)(B) - 11/09/78 43 FR 52237; CURRENT RULE VERSION = 07/25/77:

1. The owner/operator (o/o) shall install, operate and maintain this dust collector in strict accord with those recommendations of the manufacturer/supplier, and sound engineering

principles, which produce minimum emissions of air contaminants.

2. The o/o shall institute a program of maintenance which embraces; visible emission determinations performed according to the frequency outlined in the attached summary Table entitled "MACT Standard -- Portland Cement Manufacturing Industry", monthly visual inspections of all associated equipment (inclusive of the bags and their suspensions system) in accordance with 40CFR Part 63.1350, and regular (to be determined with experience with this unit) measurements of the pressure differential across the bags.
3. The o/o shall log all the items in 2 above in addition to the bag replacements, repairs and non-scheduled maintenance. The log shall be kept current, on-site for a minimum of 5 years and provided to District personnel on request.
4. The o/o shall maintain an inventory of replacement bags on-site at all times which will ensure compliance with applicable Rules of District Regulation IV.
5. The o/o shall install and maintain a device which measures the pressure differential across the bags if one has not been provided with this unit.
6. This baghouse shall operate concurrently with Clinker Pan Conveyor of the Kiln (Q-3)/Clinker Cooler under valid District permit number B005362.
7. This baghouse shall discharge no more than 0.48 lb/hour of PM-10 at a maximum concentration of 0.01 grain/dscf PM-10 at the operating conditions described in the above description.
8. Opacity measurements shall not exceed 10% aggregated for 3 minutes in any 1-hour period.
9. Regular emissions testing for demonstration of compliance with District rules 404 and 405 are not required, however, an initial source test is required as noted below. The District may require additional emissions testing at its discretion.
49. **BAGHOUSE - FBH4P1 - MDAQMD PERMIT # C007359; consisting of:**
Bags to collect particulates from existing Raymond Mill, FCM 4. Bags will withstand 125 degrees F at a flow rate 15,000 ACFM. Southdown will provide additional information as contracts are let, but further revisions may be necessary.

PERMIT CONDITIONS; (UNLESS OTHERWISE STATED ALL CONDITIONS RESULT FROM RULE 204 - PERMIT CONDITIONS; VERSION IN SIP = CARB EX. ORDER G-73, 40 CFR 52.220(C)(39)(II)(B) - 11/09/78 43 FR 52237; CURRENT RULE VERSION = 07/25/77:

1. The owner/operator (o/o) shall install, operate and maintain this dust collector in strict accord with those recommendations of the manufacturer/supplier, and sound engineering principles, which produce minimum emissions of air contaminants.
2. The o/o shall institute a program of maintenance which embraces; visible emission determinations performed according to the frequency outlined in the attached summary Table entitled "MACT Standard -- Portland Cement Manufacturing Industry", monthly visual inspections of all associated equipment (inclusive of the bags and their suspensions system) in accordance with 40CFR Part 63.1350, and regular (to be determined with experience with this unit) measurements of the pressure differential across the bags.
3. The o/o shall log all the items in 2 above in addition to the bag replacements, repairs and non-scheduled maintenance. The log shall be kept current, on-site for a minimum of 5 years and provided to District personnel on request.
4. The o/o shall maintain an inventory of replacement bags on-site at all times which will ensure compliance with applicable Rules of District Regulation IV.
5. The o/o shall install and maintain a device which measures the pressure differential across the bags if one has not been provided with this unit.
6. This baghouse shall operate concurrently with Raymond Mill FCM4 Bin; under valid District permit number B005362.
7. This baghouse shall discharge no more than 0.5 lb/hour at a maximum concentration of 0.02 gr/dSCF at the operating conditions described in the above description.

**50. KILN Q3 PRE-HEATER FEED SYSTEM - MDAQMD PERMIT # B007340;
consisting of:**

This system is vented to 3 baghouses. Cemex refers to the baghouses as EBH6 (C007348), EBH7 (C007350), EBH8 (C007351) and EBH9 (C008253). Baghouse motors for this system will be provided as contracts are let, and subject to revision.

PERMIT CONDITIONS; (UNLESS OTHERWISE STATED ALL CONDITIONS

RESULT FROM RULE 204 - PERMIT CONDITIONS; VERSION IN SIP = CARB EX. ORDER G-73, 40 CFR 52.220(C)(39)(II)(B) - 11/09/78 43 FR 52237; CURRENT RULE VERSION = 07/25/77:

1. The owner/operator, o/o, shall install, operate and maintain the equipment described on this permit in compliance with all data and specifications submitted with the application under which this permit is issued unless specifically exempted below.
2. This equipment shall not be operated unless it is vented to the properly functioning baghouses EBH6, EBH7, EBH8 and EBH9; under valid District permits C007348, C007350, C007351, and C008253 respectively.

51 BAGHOUSE - EBH6, WHICH SERVES THE KILN Q-3 PRE-HEATER SYSTEM - MDAQMD PERMIT # C007348; consisting of:

Bags to collect particulates from pre-heater kiln feed of Q-3. Baghouse operates at 150 degrees F at a flow rate 4500 ACFM. Cemex will provide additional information as contracts are let; revisions may be necessary.

PERMIT CONDITIONS; (UNLESS OTHERWISE STATED ALL CONDITIONS RESULT FROM RULE 204 - PERMIT CONDITIONS; VERSION IN SIP = CARB EX. ORDER G-73, 40 CFR 52.220(C)(39)(II)(B) - 11/09/78 43 FR 52237; CURRENT RULE VERSION = 07/25/77:

1. The owner/operator (o/o) shall install, operate and maintain this dust collector in strict accord with those recommendations of the manufacturer/supplier, and sound engineering principles, which produce minimum emissions of air contaminants.
2. The o/o shall institute a program of maintenance which embraces; visible emission determinations performed according to the frequency outlined in the attached summary Table entitled "MACT Standard -- Portland Cement Manufacturing Industry", monthly visual inspections of all associated equipment (inclusive of the bags and their suspensions system) in accordance with 40CFR Part 63.1350, and regular (to be determined with experience with this unit) measurements of the pressure differential across the bags.
3. The o/o shall log all the items in 2 above in addition to the bag replacements, repairs and non-scheduled maintenance. The log shall be kept current, on-site for a minimum of 5 years and provided to District personnel on request.
4. The o/o shall maintain an inventory of replacement bags on-site at all times which will

ensure compliance with applicable Rules of District Regulation IV.

5. The o/o shall install and maintain a device which measures the pressure differential across the bags if one has not been provided with this unit.
6. This baghouse shall operate concurrently with kiln Q-3 pre-heater feed system; under valid District permit number B007340.
7. This baghouse shall discharge no more than 0.29 lb/hour of PM-10 at a maximum concentration of 0.01 gr/dSCF of PM-10 at the operating conditions described in the above description.
8. Opacity measurements shall not exceed 10% aggregated for 3 minutes in any 1-hour period.
9. Regular emissions testing for demonstration of compliance with District rules 404 and 405 are not required, however, an initial source test is required as noted below. The District may require additional emissions testing at its discretion.

52 BAGHOUSE- EBH7, CONTROL DEVICE FOR KILN Q-3 PRE-HEATER FEED SYSTEM - MDAQMD PERMIT # C007350; consisting of:

Bags to collect particulates from pre-heater kiln feed of Q-3. Baghouse operates at 150 degrees F, and flow rate of 4400 ACFM. Cemex will provide additional information as contracts are let; further revisions may be necessary.

PERMIT CONDITIONS; (UNLESS OTHERWISE STATED ALL CONDITIONS RESULT FROM RULE 204 - PERMIT CONDITIONS; VERSION IN SIP = CARB EX. ORDER G-73, 40 CFR 52.220(C)(39)(II)(B) - 11/09/78 43 FR 52237; CURRENT RULE VERSION = 07/25/77:

1. The owner/operator (o/o) shall install, operate and maintain this dust collector in strict accord with those recommendations of the manufacturer/supplier, and sound engineering principles, which produce minimum emissions of air contaminants.
2. The o/o shall institute a program of maintenance which embraces; visible emission determinations performed according to the frequency outlined in the attached summary Table entitled "MACT Standard -- Portland Cement Manufacturing Industry", monthly visual inspections of all associated equipment (inclusive of the bags and their suspensions system) in accordance with 40CFR Part 63.1350, and regular (to be determined with

experience with this unit) measurements of the pressure differential across the bags.

3. The o/o shall log all the items in 2 above in addition to the bag replacements, repairs and non-scheduled maintenance. The log shall be kept current, on-site for a minimum of 5 years and provided to District personnel on request.
4. The o/o shall maintain an inventory of replacement bags on-site at all times which will ensure compliance with applicable Rules of District Regulation IV.
5. The o/o shall install and maintain a device which measures the pressure differential across the bags if one has not been provided with this unit.
6. This baghouse shall operate concurrently with kiln Q-3 pre-heater feed system; under valid District permit number B007340.
7. This baghouse shall discharge no more than 0.33 lb/hour of PM-10 at a maximum concentration of 0.01 gr/dSCF of PM-10 at the operating conditions described in the above description.
8. Opacity measurements shall not exceed 10% aggregated for 3 minutes in any 1-hour period.
9. Regular emissions testing for demonstration of compliance with District rules 404 and 405 are not required, however, an initial source test is required as noted below. The District may require additional emissions testing at its discretion.

53 BAGHOUSE- EBH8, WHICH SERVES KILN Q-3 PRE-HEATER FEED SYSTEM
- MDAQMD PERMIT # C007351; consisting of:

Bags to collect particulates from pre-heater kiln feed of Q-3. Baghouse operates at 150 degrees F and flow rate of 2100 ACFM. Cemex will provide additional information as contracts are let; further revisions may be necessary.

PERMIT CONDITIONS; (UNLESS OTHERWISE STATED ALL CONDITIONS
RESULT FROM RULE 204 - PERMIT CONDITIONS; VERSION IN SIP = CARB EX.
ORDER G-73, 40 CFR 52.220(C)(39)(II)(B) - 11/09/78 43 FR 52237; CURRENT RULE
VERSION = 07/25/77:

1. The owner/operator (o/o) shall install, operate and maintain this dust collector in strict accord with those recommendations of the manufacturer/supplier, and sound engineering

principles, which produce minimum emissions of air contaminants.

2. The o/o shall institute a program of maintenance which embraces; visible emission determinations performed according to the frequency outlined in the attached summary Table entitled "MACT Standard -- Portland Cement Manufacturing Industry", monthly visual inspections of all associated equipment (inclusive of the bags and their suspensions system) in accordance with 40CFR Part 63.1350, and regular (to be determined with experience with this unit) measurements of the pressure differential across the bags.
3. The o/o shall log all the items in 2 above in addition to the bag replacements, repairs and non-scheduled maintenance. The log shall be kept current, on-site for a minimum of 5 years and provided to District personnel on request.
4. The o/o shall maintain an inventory of replacement bags on-site at all times which will ensure compliance with applicable Rules of District Regulation IV.
5. The o/o shall install and maintain a device which measures the pressure differential across the bags if one has not been provided with this unit.
6. This baghouse shall operate concurrently with kiln Q-3 pre-heater feed system; under valid District permit number B007340.
7. This baghouse shall discharge no more than 0.16 lb/hour of PM-10 at a maximum concentration of 0.01 gr/dSCF of PM-10 at the operating conditions described in the above description.
8. Opacity measurements shall not exceed 10% aggregated for 3 minutes in any 1-hour period.
9. Regular emissions testing for demonstration of compliance with District rules 404 and 405 are not required, however, an initial source test is required as noted below. The District may require additional emissions testing at its discretion.

54 BAGHOUSE (EBH9) - MDAQMD PERMIT # C008253; consisting of:

Fuller 120TA10, Pulse-Jet, stack height of 339 ft, diameter of 1.5 ft, airflow of 8100 acfm, velocity of 76.4 ft/second at 150 degrees F, 40 bhp motor, 120 Polyester Bags, 1560 ft² of cloth area and Air-to-Cloth ratio of 5.2:1, maximum emission rate of 0.01 grains PM-10/dscf

PERMIT CONDITIONS; (UNLESS OTHERWISE STATED ALL CONDITIONS RESULT FROM RULE 204 - PERMIT CONDITIONS; VERSION IN SIP = CARB EX. ORDER G-73, 40 CFR 52.220(C)(39)(II)(B) - 11/09/78 43 FR 52237; CURRENT RULE VERSION = 07/25/77:

1. The owner/operator (o/o) shall install, operate and maintain this dust collector in strict accord with those recommendations of the manufacturer/supplier, and sound engineering principles, which produce minimum emissions of air contaminants.
2. The o/o shall institute a program of maintenance which embraces; visible emission determinations performed according to the frequency outlined in the attached summary Table entitled "MACT Standard -- Portland Cement Manufacturing Industry", monthly visual inspections of all associated equipment (inclusive of the bags and their suspensions system) in accordance with 40CFR Part 63.1350, and regular (to be determined with experience with this unit) measurements of the pressure differential across the bags.
3. The o/o shall log all the items in 2 above in addition to the bag replacements, repairs and non-scheduled maintenance. The log shall be kept current, on-site for a minimum of 5 years and provided to District personnel on request.
4. The o/o shall maintain an inventory of replacement bags on-site at all times which will ensure compliance with applicable Rules of District Regulation IV.
5. The o/o shall install and maintain a device which measures the pressure differential across the bags if one has not been provided with this unit.
6. This baghouse shall operate concurrently with kiln Q-3 pre-heater feed system; under valid District permit number B007340.
7. This baghouse shall discharge no more than 0.60 lb/hour of PM-10 at a maximum concentration of 0.01 gr/dSCF of PM-10 at the operating conditions described in the above description.
8. Opacity measurements shall not exceed 10% aggregated for 3 minutes in any 1-hour period.
9. Regular emissions testing for demonstration of compliance with District rules 404 and 405 are not required, however, an initial source test is required as noted below. The District may require additional emissions testing at its discretion.

55 COAL STACKER & RECLAIM SYSTEM - MDAQMD PERMIT # B005344;
consisting of:

The outside coal will be stacked in a pile that is approximately 430 ft long and 125 ft wide and about 55 ft high. This pile is not enclosed.

Receiving Hoppers, 2; below Railcar Dump, each rated at 300 ton/h

Railcar Shaker

Belt Feeders, each at 15 hp

C-2A Conveyor

C-3A Conveyor

Traveling Stacker/Reclaimer, rated at 600 ton/h

C-4 Conveyor

Emergency Reclaim Hopper

PERMIT CONDITIONS; (UNLESS OTHERWISE STATED ALL CONDITIONS RESULT FROM RULE 204 - PERMIT CONDITIONS; VERSION IN SIP = CARB EX. ORDER G-73, 40 CFR 52.220(C)(39)(II)(B) - 11/09/78 43 FR 52237; CURRENT RULE VERSION = 07/25/77:

1. The owner/operator, o/o, shall install, operate and maintain this equipment in strict accord with the recommendations of the manufacturer/supplier.
2. All outside conveyors, excluding the stacker/reclaimer yard conveyor shall be covered.
3. Water sprays shall be installed, operated and maintained on the receiving hopper under the railcar dump. These sprays shall be used as necessary to prevent violations of District rules 401, 402, and 403.
4. A log of operations shall be kept by the o/o for this equipment. The log shall record at least the following:
 - a. Date of coal train delivery
 - b. Number of cars delivered
 - c. Number of tons of coal per car
5. With prior written approval, or if there is a breakdown, consistent with District rule 430, of the stacker/reclaimer yard equipment, other means, which include but is not limited to the use of front-end loaders, may be used to transport coal to the Emergency Reclaim Hopper, prior to its entrance into the kiln.
6. The Emergency Reclaim Hopper may be used to deliver petroleum coke (with a moisture

content of at least eight (8) percent) to the conveyor.

7. The o/o will ensure that the petroleum coke storage pile (or delivered petroleum coke) contains sufficient moisture through the use of water sprays or other means. Moisture content shall be verified through moisture content tests; a petroleum coke moisture content test shall be performed during each week petroleum coke is used as fuel (and the date and results of each test shall be maintained on-site for five (5) years).

56 NEW PULVERIZED COAL BIN (FPFB 4) - MDAQMD PERMIT # T007357;
consisting of:

8800 cubic ft bin served by Baghouse-K3CDCF1. Ancillary equipment includes explosion vent, plant air, agitator, new pfister feeder, high-pressure CO2 system and those necessary electrical motors, controls and instrumentation to operate.

PERMIT CONDITIONS; (UNLESS OTHERWISE STATED ALL CONDITIONS RESULT FROM RULE 204 - PERMIT CONDITIONS; VERSION IN SIP = CARB EX. ORDER G-73, 40 CFR 52.220(C)(39)(II)(B) - 11/09/78 43 FR 52237; CURRENT RULE VERSION = 07/25/77:

1. The owner/operator, o/o, shall install, operate and maintain the equipment described on this permit in compliance with all data and specifications submitted with the application under which this permit is issued unless specifically exempted below.
2. This equipment shall not be operated unless it is vented to the properly functioning baghouse FPFB4DC under valid District permit C007358.

57 BAGHOUSE - (FPFB4DC), WHICH SERVES THE NEW PULVERIZED COAL BIN- MDAQMD PERMIT # C007358; consisting of:

Bags to collect particulates from the New Pulverized Coal Bin. Bags will withstand 150 degrees F at a flow rate 3500 ACFM. Southdown will provide additional information as contracts are let, but further revisions may be necessary.

PERMIT CONDITIONS; (UNLESS OTHERWISE STATED ALL CONDITIONS RESULT FROM RULE 204 - PERMIT CONDITIONS; VERSION IN SIP = CARB EX. ORDER G-73, 40 CFR 52.220(C)(39)(II)(B) - 11/09/78 43 FR 52237; CURRENT RULE VERSION = 07/25/77:

1. The owner/operator (o/o) shall install, operate and maintain this dust collector in strict

accord with those recommendations of the manufacturer/supplier, and sound engineering principles, which produce minimum emissions of air contaminants.

2. The o/o shall institute a program of maintenance which embraces; visible emission determinations performed according to the frequency outlined in the attached summary Table entitled "MACT Standard -- Portland Cement Manufacturing Industry", monthly visual inspections of all associated equipment (inclusive of the bags and their suspensions system) in accordance with 40CFR Part 63.1350, and regular (to be determined with experience with this unit) measurements of the pressure differential across the bags.
3. The o/o shall log all the items in 2 above in addition to the bag replacements, repairs and non-scheduled maintenance. The log shall be kept current, on-site for a minimum of 5 years and provided to District personnel on request.
4. The o/o shall maintain an inventory of replacement bags on-site at all times which will ensure compliance with applicable Rules of District Regulation IV.
5. The o/o shall install and maintain a device which measures the pressure differential across the bags if one has not been provided with this unit.
6. This baghouse shall operate concurrently with New Pulverized Coal Bin; under valid District permit number T007357.
7. This baghouse shall discharge no more than 0.5 lb/hour of PM-10 at a maximum concentration of 0.02 gr/dSCF of PM-10 at the operating conditions described in the above description.

58 ROLL PRESS NO. 1, RAW MATERIAL GRINDING - MDAQMD PERMIT # B007336; consisting of:

Roll Press Grinder, approximately 3000 bhp. This process vents to 4 baghouses. Southdown refers to these baghouses as DBH07, DBH08 and DBH09.

Conveyors

Bucket Elevators

Ducting to Baghouse NBH2

Note: total hp of motors to drive this system as well as the complete description of selected equipment will be provided as contracts are let.

PERMIT CONDITIONS; (UNLESS OTHERWISE STATED ALL CONDITIONS
RESULT FROM RULE 204 - PERMIT CONDITIONS; VERSION IN SIP = CARB EX.

ORDER G-73, 40 CFR 52.220(C)(39)(II)(B) - 11/09/78 43 FR 52237; CURRENT RULE VERSION = 07/25/77:

1. The owner/operator, o/o, shall install, operate and maintain the equipment described on this permit in compliance with all data and specifications submitted with the application under which this permit is issued unless specifically exempted below.
2. This equipment shall not be operated unless it is vented to the properly functioning baghouses DBH09, DBH07 and DBH08 under valid District permits C007360, C007361 and C007362 respectively.

59 BAGHOUSE, CBH3, AT DROP TUBE FROM CBC8 (B001666), RAW MATERIAL TRANSPORT SYSTEM - MDAQMD PERMIT # C007337; consisting of:

Flex-Kleen, Pulse Jet Type, Air: Cloth ratio of 5.6:1, operating at ambient temperature, 40 bhp motor, 64 Polyester bags, cloth area 979 ft², stack height 6 ft, diameter 1.6 ft, flow rate 5500 acfm, exhaust velocity of 45.6 ft/sec, maximum emission rate of 0.01 grains PM-10/dscf

PERMIT CONDITIONS; (UNLESS OTHERWISE STATED ALL CONDITIONS RESULT FROM RULE 204 - PERMIT CONDITIONS; VERSION IN SIP = CARB EX. ORDER G-73, 40 CFR 52.220(C)(39)(II)(B) - 11/09/78 43 FR 52237; CURRENT RULE VERSION = 07/25/77:

1. The owner/operator (o/o) shall install, operate and maintain this dust collector in strict accord with those recommendations of the manufacturer/supplier, and sound engineering principles, which produce minimum emissions of air contaminants.
2. The o/o shall institute a program of maintenance which embraces; visible emission determinations performed according to the frequency outlined in the attached summary Table entitled "MACT Standard -- Portland Cement Manufacturing Industry", monthly visual inspections of all associated equipment (inclusive of the bags and their suspensions system) in accordance with 40CFR Part 63.1350, and regular (to be determined with experience with this unit) measurements of the pressure differential across the bags.
3. The o/o shall log all the items in 2 above in addition to the bag replacements, repairs and non-scheduled maintenance. The log shall be kept current, on-site for a minimum of 5 years and provided to District personnel on request.
4. The o/o shall maintain an inventory of replacement bags on-site at all times which will

ensure compliance with applicable Rules of District Regulation IV.

5. The o/o shall install and maintain a device which measures the pressure differential across the bags if one has not been provided with this unit.
6. This baghouse shall operate concurrently with the Raw Material Grinding system; under valid District permit number B001666.
7. This baghouse shall discharge no more than 0.47lb/hour of PM-10 at a maximum concentration of 0.01 gr/dSCF of PM-10 at the operating conditions described in the above description.
8. Opacity measurements shall not exceed 10% aggregated for 3 minutes in any 1-hour period.
9. Regular emissions testing for demonstration of compliance with District rules 404 and 405 are not required, however, an initial source test is required as noted below. The District may require additional emissions testing at its discretion.

**60. BAGHOUSE- DBH 9, WHICH SERVES ROLL PRESS 1(MATERIAL GRINDING)
- MDAQMD PERMIT # C007360; consisting of:**

Bags to collect particulates from Roll Press No. 1 system. Bags will withstand 125 degrees F at a flow rate 96,000 ACFM. Southdown will provide additional information as contracts are let, but further revisions may be necessary.

PERMIT CONDITIONS; (UNLESS OTHERWISE STATED ALL CONDITIONS RESULT FROM RULE 204 - PERMIT CONDITIONS; VERSION IN SIP = CARB EX. ORDER G-73, 40 CFR 52.220(C)(39)(II)(B) - 11/09/78 43 FR 52237; CURRENT RULE VERSION = 07/25/77:

1. The owner/operator (o/o) shall install, operate and maintain this dust collector in strict accord with those recommendations of the manufacturer/supplier, and sound engineering principles, which produce minimum emissions of air contaminants.
2. The o/o shall institute a program of maintenance which embraces; visible emission determinations performed according to the frequency outlined in the attached summary Table entitled "MACT Standard -- Portland Cement Manufacturing Industry", monthly visual inspections of all associated equipment (inclusive of the bags and their suspensions system) in accordance with 40CFR Part 63.1350, and regular (to be determined with

experience with this unit) measurements of the pressure differential across the bags.

3. The o/o shall log all the items in 2 above in addition to the bag replacements, repairs and non-scheduled maintenance. The log shall be kept current, on-site for a minimum of 5 years and provided to District personnel on request.
4. The o/o shall maintain an inventory of replacement bags on-site at all times which will ensure compliance with applicable Rules of District Regulation IV.
5. The o/o shall install and maintain a device which measures the pressure differential across the bags if one has not been provided with this unit.
6. This baghouse shall operate concurrently with the Roll Press No.1 System; under valid District permit number B007336.
7. This baghouse shall discharge no more than 13.5 lb/hour of PM-10 at a maximum concentration of 0.02 gr/dSCF of PM-10 at the operating conditions described in the above description.

61. BAGHOUSE DBH 7, WHICH SERVES ROLL PRESS No. 1 - MDAQMD PERMIT # C007361; consisting of:

Bags to collect particulates from Roll Press No. 1 system. Bags will withstand 150 degrees F at a flow rate 9,400 ACFM. Southdown will provide additional information as contracts are let, but further revisions may be necessary.

PERMIT CONDITIONS; (UNLESS OTHERWISE STATED ALL CONDITIONS RESULT FROM RULE 204 - PERMIT CONDITIONS; VERSION IN SIP = CARB EX. ORDER G-73, 40 CFR 52.220(C)(39)(II)(B) - 11/09/78 43 FR 52237; CURRENT RULE VERSION = 07/25/77:

1. The owner/operator (o/o) shall install, operate and maintain this dust collector in strict accord with those recommendations of the manufacturer/supplier, and sound engineering principles, which produce minimum emissions of air contaminants.
2. The o/o shall institute a program of maintenance which embraces; visible emission determinations performed according to the frequency outlined in the attached summary Table entitled "MACT Standard -- Portland Cement Manufacturing Industry", monthly visual inspections of all associated equipment (inclusive of the bags and their suspensions system) in accordance with 40CFR Part 63.1350, and regular (to be determined with

experience with this unit) measurements of the pressure differential across the bags.

3. The o/o shall log all the items in 2 above in addition to the bag replacements, repairs and non-scheduled maintenance. The log shall be kept current, on-site for a minimum of 5 years and provided to District personnel on request.
4. The o/o shall maintain an inventory of replacement bags on-site at all times which will ensure compliance with applicable Rules of District Regulation IV.
5. The o/o shall install and maintain a device which measures the pressure differential across the bags if one has not been provided with this unit.
6. This baghouse shall operate concurrently with the Roll Press No.1 System; under valid District permit number B007336.
7. This baghouse shall discharge no more than 1.25 lb/hour of PM-10 at a maximum concentration of 0.02 gr/dSCF of PM-10 at the operating conditions described in the above description.

62. BAGHOUSE-DBH 8, WHICH SERVES ROLL PRESS No.1 - MDAQMD PERMIT # C007362; consisting of:

Bags to collect particulates from Roll Press No. 1 system. Bags will withstand 125 degrees F at a flow rate 9,400 ACFM. Southdown will provide additional information as contracts are let, but further revisions may be necessary.

PERMIT CONDITIONS; (UNLESS OTHERWISE STATED ALL CONDITIONS RESULT FROM RULE 204 - PERMIT CONDITIONS; VERSION IN SIP = CARB EX. ORDER G-73, 40 CFR 52.220(C)(39)(II)(B) - 11/09/78 43 FR 52237; CURRENT RULE VERSION = 07/25/77:

1. The owner/operator (o/o) shall install, operate and maintain this dust collector in strict accord with those recommendations of the manufacturer/supplier, and sound engineering principles, which produce minimum emissions of air contaminants.
2. The o/o shall institute a program of maintenance which embraces; visible emission determinations performed according to the frequency outlined in the attached summary Table entitled "MACT Standard -- Portland Cement Manufacturing Industry", monthly visual inspections of all associated equipment (inclusive of the bags and their suspensions system) in accordance with 40CFR Part 63.1350, and regular (to be determined with

experience with this unit) measurements of the pressure differential across the bags.

3. The o/o shall log all the items in 2 above in addition to the bag replacements, repairs and non-scheduled maintenance. The log shall be kept current, on-site for a minimum of 5 years and provided to District personnel on request.
4. The o/o shall maintain an inventory of replacement bags on-site at all times which will ensure compliance with applicable Rules of District Regulation IV.
5. The o/o shall install and maintain a device which measures the pressure differential across the bags if one has not been provided with this unit.
6. This baghouse shall operate concurrently with the Roll Press No.1 System; under valid District permit number B007336.
7. This baghouse shall discharge no more than 1.25 lb/hour of PM-10 at a maximum concentration of 0.02 gr/dSCF of PM-10 at the operating conditions described in the above description.

63. BAGHOUSE- DBH 13, WHICH SERVES ROLL PRESS No.1 - MDAQMD
PERMIT # C007363; consisting of:

Bags to collect particulates from Roll Press No. 1 system. Bags will withstand 150 degrees F at a flow rate 4800 ACFM. Southdown will provide additional information as contracts are let, but further revisions may be necessary.

PERMIT CONDITIONS; (UNLESS OTHERWISE STATED ALL CONDITIONS RESULT FROM RULE 204 - PERMIT CONDITIONS; VERSION IN SIP = CARB EX. ORDER G-73, 40 CFR 52.220(C)(39)(II)(B) - 11/09/78 43 FR 52237; CURRENT RULE VERSION = 07/25/77:

1. The owner/operator (o/o) shall install, operate and maintain this dust collector in strict accord with those recommendations of the manufacturer/supplier, and sound engineering principles, which produce minimum emissions of air contaminants.
2. The o/o shall institute a program of maintenance which embraces; visible emission determinations performed according to the frequency outlined in the attached summary Table entitled "MACT Standard -- Portland Cement Manufacturing Industry", monthly visual inspections of all associated equipment (inclusive of the bags and their suspensions system) in accordance with 40CFR Part 63.1350, and regular (to be determined with

experience with this unit) measurements of the pressure differential across the bags.

3. The o/o shall log all the items in 2 above in addition to the bag replacements, repairs and non-scheduled maintenance. The log shall be kept current, on-site for a minimum of 5 years and provided to District personnel on request.
4. The o/o shall maintain an inventory of replacement bags on-site at all times which will ensure compliance with applicable Rules of District Regulation IV.
5. The o/o shall install and maintain a device which measures the pressure differential across the bags if one has not been provided with this unit.
6. This baghouse shall discharge no more than 0.65 lb/hour of PM-10 at a maximum concentration of 0.02 gr/dSCF of PM-10 at the operating conditions described in the above description.

64. ROLL PRESS No. 2, RAW MATERIAL GRINDING - MDAQMD PERMIT # B007364; consisting of:

Roll Press Grinder, approximately 3000 bhp. This process vents to 4 baghouses. Southdown refers to these baghouses as DBH13, DBH12, DBH10 and DBH11.
Conveyors

Bucket Elevators

Ducting to Baghouse NBH2

Note: total hp of motors to drive this system as well as the complete description of selected equipment will be provided as contracts are let.

PERMIT CONDITIONS; (UNLESS OTHERWISE STATED ALL CONDITIONS RESULT FROM RULE 204 - PERMIT CONDITIONS; VERSION IN SIP = CARB EX. ORDER G-73, 40 CFR 52.220(C)(39)(II)(B) - 11/09/78 43 FR 52237; CURRENT RULE VERSION = 07/25/77:

1. The owner/operator, o/o, shall install, operate and maintain the equipment described on this permit in compliance with all data and specifications submitted with the application under which this permit is issued unless specifically exempted below.
2. This equipment shall not be operated unless it is vented to the properly functioning baghouses DBH13, DBH12, DBH10 and DBH11 under valid District permits C007365, C007366, C007367 and C007363 respectively.

65. BAGHOUSE-DBH 12, WHICH SERVES ROLL PRESS No. 2 - MDAQMD PERMIT # C007365; consisting of:

A baghouse to withstand 150 degrees F and handle a flow rate of 114,000 ACFM. When final contracts have been let, more specific details may be added, but the final installation used will define the final permit.

PERMIT CONDITIONS; (UNLESS OTHERWISE STATED ALL CONDITIONS RESULT FROM RULE 204 - PERMIT CONDITIONS; VERSION IN SIP = CARB EX. ORDER G-73, 40 CFR 52.220(C)(39)(II)(B) - 11/09/78 43 FR 52237; CURRENT RULE VERSION = 07/25/77:

1. The owner/operator (o/o) shall install, operate and maintain this dust collector in strict accord with those recommendations of the manufacturer/supplier, and sound engineering principles, which produce minimum emissions of air contaminants.
2. The o/o shall institute a program of maintenance which embraces; visible emission determinations performed according to the frequency outlined in the attached summary Table entitled "MACT Standard -- Portland Cement Manufacturing Industry", monthly visual inspections of all associated equipment (inclusive of the bags and their suspensions system) in accordance with 40CFR Part 63.1350, and regular (to be determined with experience with this unit) measurements of the pressure differential across the bags.
3. The o/o shall log all the items in 2 above in addition to the bag replacements, repairs and non-scheduled maintenance. The log shall be kept current, on-site for a minimum of 5 years and provided to District personnel on request.
4. The o/o shall maintain an inventory of replacement bags on-site at all times which will ensure compliance with applicable Rules of District Regulation IV.
5. The o/o shall install and maintain a device which measures the pressure differential across the bags if one has not been provided with this unit.
6. This baghouse shall operate concurrently with the Roll Press No.2 System; under valid District permit number B007364.
7. This baghouse shall discharge no more than 16.5 lb/hour of PM-10 at a maximum concentration of 0.02 gr/dSCF of PM-10 at the operating conditions described in the above description.

66. BAGHOUSE-DBH 10, WHICH SERVES ROLL PRESS No.2 - MDAQMD PERMIT # C007366; consisting of:

A baghouse to withstand 150 degrees F and handle a flow rate of 9,400 ACFM. When final contracts have been let, more specific details may be added, but the final installation used will define the final permit.

PERMIT CONDITIONS; (UNLESS OTHERWISE STATED ALL CONDITIONS RESULT FROM RULE 204 - PERMIT CONDITIONS; VERSION IN SIP = CARB EX. ORDER G-73, 40 CFR 52.220(C)(39)(II)(B) - 11/09/78 43 FR 52237; CURRENT RULE VERSION = 07/25/77:

1. The owner/operator (o/o) shall install, operate and maintain this dust collector in strict accord with those recommendations of the manufacturer/supplier, and sound engineering principles, which produce minimum emissions of air contaminants.
2. The o/o shall institute a program of maintenance which embraces; visible emission determinations performed according to the frequency outlined in the attached summary Table entitled "MACT Standard -- Portland Cement Manufacturing Industry", monthly visual inspections of all associated equipment (inclusive of the bags and their suspensions system) in accordance with 40CFR Part 63.1350, and regular (to be determined with experience with this unit) measurements of the pressure differential across the bags.
3. The o/o shall log all the items in 2 above in addition to the bag replacements, repairs and non-scheduled maintenance. The log shall be kept current, on-site for a minimum of 5 years and provided to District personnel on request.
4. The o/o shall maintain an inventory of replacement bags on-site at all times which will ensure compliance with applicable Rules of District Regulation IV.
5. The o/o shall install and maintain a device which measures the pressure differential across the bags if one has not been provided with this unit.
6. This baghouse shall operate concurrently with the Roll Press No.2 System; under valid District permit number B007364.
7. This baghouse shall discharge no more than 1.35 lb/hour of PM-10 at a maximum concentration of 0.02 gr/dSCF of PM-10 at the operating conditions described in the above description.

67 BAGHOUSE-DBH 11, WHICH SERVES ROLL PRESS No. 2 - MDAQMD
PERMIT # C007367; consisting of:

A baghouse to withstand 150 degrees F and handle a flow rate of 9400 ACFM. When final contracts have been let, more specific details may be added, but the final installation used will define the final permit.

PERMIT CONDITIONS; (UNLESS OTHERWISE STATED ALL CONDITIONS RESULT FROM RULE 204 - PERMIT CONDITIONS; VERSION IN SIP = CARB EX. ORDER G-73, 40 CFR 52.220(C)(39)(II)(B) - 11/09/78 43 FR 52237; CURRENT RULE VERSION = 07/25/77:

1. The owner/operator (o/o) shall install, operate and maintain this dust collector in strict accord with those recommendations of the manufacturer/supplier, and sound engineering principles, which produce minimum emissions of air contaminants.
2. The o/o shall institute a program of maintenance which embraces; visible emission determinations performed according to the frequency outlined in the attached summary Table entitled "MACT Standard -- Portland Cement Manufacturing Industry", monthly visual inspections of all associated equipment (inclusive of the bags and their suspensions system) in accordance with 40CFR Part 63.1350, and regular (to be determined with experience with this unit) measurements of the pressure differential across the bags.
3. The o/o shall log all the items in 2 above in addition to the bag replacements, repairs and non-scheduled maintenance. The log shall be kept current, on-site for a minimum of 5 years and provided to District personnel on request.
4. The o/o shall maintain an inventory of replacement bags on-site at all times which will ensure compliance with applicable Rules of District Regulation IV.
5. The o/o shall install and maintain a device which measures the pressure differential across the bags if one has not been provided with this unit.
6. This baghouse shall operate concurrently with the Roll Press No.2 System; under valid District permit number B007364.
7. This baghouse shall discharge no more than 1.35 lb/hour of PM-10 at a maximum concentration of 0.02 gr/dSCF of PM-10 at the operating conditions described in the above description.

68. AW MEAL TRANSPORT SYSTEM - MDAQMD PERMIT # T007339; consisting of:

A silo of approximately 250,000 gallons and conveyors. System vents to 3 baghouses, DBH6, DBH14, and DBH15.

PERMIT CONDITIONS; (UNLESS OTHERWISE STATED ALL CONDITIONS RESULT FROM RULE 204 - PERMIT CONDITIONS; VERSION IN SIP = CARB EX. ORDER G-73, 40 CFR 52.220(C)(39)(II)(B) - 11/09/78 43 FR 52237; CURRENT RULE VERSION = 07/25/77:

1. The owner/operator, o/o, shall install, operate and maintain the equipment described on this permit in compliance with all data and specifications submitted with the application under which this permit is issued unless specifically exempted below.
2. This equipment shall not be operated unless it is vented to properly functioning baghouses; DBH6, DBH14, and DBH15, per valid District permits C007353, C007355 and C007356, respectively.

69. BAGHOUSE- DBH13, WHICH SERVES RAW MATERIAL TRANSPORT SYSTEM - MDAQMD PERMIT # C007353; consisting of:

Bags to collect particulates from Raw Material Transport system. Baghouse operates at 150 degrees F and flow rate of 4600 ACFM. Cemex will provide additional information as contracts are let further revisions may be necessary.

PERMIT CONDITIONS; (UNLESS OTHERWISE STATED ALL CONDITIONS RESULT FROM RULE 204 - PERMIT CONDITIONS; VERSION IN SIP = CARB EX. ORDER G-73, 40 CFR 52.220(C)(39)(II)(B) - 11/09/78 43 FR 52237; CURRENT RULE VERSION = 07/25/77:

1. The owner/operator (o/o) shall install, operate and maintain this dust collector in strict accord with those recommendations of the manufacturer/supplier, and sound engineering principles, which produce minimum emissions of air contaminants.
2. The o/o shall institute a program of maintenance which embraces; visible emission determinations performed according to the frequency outlined in the attached summary Table entitled "MACT Standard -- Portland Cement Manufacturing Industry", monthly visual inspections of all associated equipment (inclusive of the bags and their suspensions system) in accordance with 40CFR Part 63.1350, and regular (to be determined with

experience with this unit) measurements of the pressure differential across the bags.

3. The o/o shall log all the items in 2 above in addition to the bag replacements, repairs and non-scheduled maintenance. The log shall be kept current, on-site for a minimum of 5 years and provided to District personnel on request.
4. The o/o shall maintain an inventory of replacement bags on-site at all times which will ensure compliance with applicable Rules of District Regulation IV.
5. The o/o shall install and maintain a device which measures the pressure differential across the bags if one has not been provided with this unit.
6. This baghouse shall operate concurrently with the Raw Material Grinding system; under valid District permit number T007339.
7. This baghouse shall discharge no more than 0.34lb/hour of PM-10 at a maximum concentration of 0.01 gr/dSCF of PM-10 at the operating conditions described in the above description.
8. Opacity measurements shall not exceed 10% aggregated for 3 minutes in any 1-hour period.
9. Regular emissions testing for demonstration of compliance with District rules 404 and 405 are not required, however, an initial source test is required as noted below. The District may require additional emissions testing at its discretion.

70. BAGHOUSE-DBH14, CONTROLLING EMISSIONS FROM THE RAW MATERIAL TRANSPORT SYSTEM - MDAQMD PERMIT # C007355; consisting of:

Bags to collect particulates from Ray Material Transport system. Baghouse operates at 150 degrees F and 8,650 ACFM flow rate. Cemex will provide additional information as contracts are let; revisions may be necessary.

PERMIT CONDITIONS; (UNLESS OTHERWISE STATED ALL CONDITIONS RESULT FROM RULE 204 - PERMIT CONDITIONS; VERSION IN SIP = CARB EX. ORDER G-73, 40 CFR 52.220(C)(39)(II)(B) - 11/09/78 43 FR 52237; CURRENT RULE VERSION = 07/25/77:

1. The owner/operator (o/o) shall install, operate and maintain this dust collector in strict

accord with those recommendations of the manufacturer/supplier, and sound engineering principles, which produce minimum emissions of air contaminants.

2. The o/o shall institute a program of maintenance which embraces; visible emission determinations performed according to the frequency outlined in the attached summary Table entitled "MACT Standard -- Portland Cement Manufacturing Industry", monthly visual inspections of all associated equipment (inclusive of the bags and their suspensions system) in accordance with 40CFR Part 63.1350, and regular (to be determined with experience with this unit) measurements of the pressure differential across the bags.
3. The o/o shall log all the items in 2 above in addition to the bag replacements, repairs and non-scheduled maintenance. The log shall be kept current, on-site for a minimum of 5 years and provided to District personnel on request.
4. The o/o shall maintain an inventory of replacement bags on-site at all times which will ensure compliance with applicable Rules of District Regulation IV.
5. The o/o shall install and maintain a device which measures the pressure differential across the bags if one has not been provided with this unit.
6. This baghouse shall operate concurrently with the Raw Meal Transport system; under valid District permit number T007339.
7. This baghouse shall discharge no more than 0.64lb/hour of PM-10 at a maximum concentration of 0.01 gr/dSCF of PM-10 at the operating conditions described in the above description.
8. Opacity measurements shall not exceed 10% aggregated for 3 minutes in any 1-hour period.
9. Regular emissions testing for demonstration of compliance with District rules 404 and 405 are not required, however, an initial source test is required as noted below. The District may require additional emissions testing at its discretion.
71. **BAGHOUSE - DBH 15 - MDAQMD PERMIT C007356; consisting of:**
Bags to collect particulates from Raw Material Transport system. Baghouse operates at 150 degrees F at a flow rate of 5300 ACFM. Cemex will provide additional information as contracts are let; further revisions may be necessary.

PERMIT CONDITIONS; (UNLESS OTHERWISE STATED ALL CONDITIONS RESULT FROM RULE 204 - PERMIT CONDITIONS; VERSION IN SIP = CARB EX. ORDER G-73, 40 CFR 52.220(C)(39)(II)(B) - 11/09/78 43 FR 52237; CURRENT RULE VERSION = 07/25/77:

1. The owner/operator (o/o) shall install, operate and maintain this dust collector in strict accord with those recommendations of the manufacturer/supplier, and sound engineering principles, which produce minimum emissions of air contaminants.
2. The o/o shall institute a program of maintenance which embraces; visible emission determinations performed according to the frequency outlined in the attached summary Table entitled "MACT Standard -- Portland Cement Manufacturing Industry", monthly visual inspections of all associated equipment (inclusive of the bags and their suspensions system) in accordance with 40CFR Part 63.1350, and regular (to be determined with experience with this unit) measurements of the pressure differential across the bags.
3. The o/o shall log all the items in 2 above in addition to the bag replacements, repairs and non-scheduled maintenance. The log shall be kept current, on-site for a minimum of 5 years and provided to District personnel on request.
4. The o/o shall maintain an inventory of replacement bags on-site at all times which will ensure compliance with applicable Rules of District Regulation IV.
5. The o/o shall install and maintain a device which measures the pressure differential across the bags if one has not been provided with this unit.
6. This baghouse shall operate concurrently with the Raw Material Transport system; under valid District permit number T007339.
7. This baghouse shall discharge no more than 0.39lb/hour of PM-10 at a maximum concentration of 0.01 gr/dSCF of PM-10 at the operating conditions described in the above description.
8. Opacity measurements shall not exceed 10% aggregated for 3 minutes in any 1-hour period.
9. Regular emissions testing for demonstration of compliance with District rules 404 and 405 are not required, however, an initial source test is required as noted below. The District may require additional emissions testing at its discretion.

72. SILO-RAW MEAL ES4 - MDAQMD PERMIT # T008472; consisting of:

A new K3 blending silo, which contains approximately 12,000 ton of raw meal at 70 lb/cubic ft (total rating 2.56 million gallons). This silo to be designated ES4 will sit approximately 115 feet on centers from silo ES3. This new silo will be equipped with two new baghouses to collect PM-10. Included in this silo will be the necessary rotary control valve motors (electric and air operated); hand operated cut-off gate; Airslides and the necessary equipment to tie into K2 Blending Silo, ES3. Additionally this new silo will vent to existing baghouse EBH6, which also serves the Q3 kiln preheater, District permit number C007348.

PERMIT CONDITIONS; (UNLESS OTHERWISE STATED ALL CONDITIONS RESULT FROM RULE 204 - PERMIT CONDITIONS; VERSION IN SIP = CARB EX. ORDER G-73, 40 CFR 52.220(C)(39)(II)(B) - 11/09/78 43 FR 52237; CURRENT RULE VERSION = 07/25/77:

1. The equipment described above, and those additions to it as may be necessary upon actual construction, shall be vented to the two new baghouses C008473 (EBH10) and C008474 (EBH11) as well as the existing baghouse C007348.
2. This unit shall not be operated if any of the above baghouses are not operated for any reason, unless prior written approval is given by the APCO.
3. The owner/operator, o/o, shall give the District written notice of the following dates:
 - a. Commencement of construction, defined as ground breaking for pad placement;
 - b. Completion of construction;
 - c. Start-up for shakedown purposes; and
 - d. Commencement of commercial use.
4. Within 180 days of commercial startup, as determined in condition 3d, the o/o shall conduct emissions testing for PM and PM-10 on the outlets of the baghouse described in District permits C008473 and C008474. The testing shall follow the District's Compliance Test Procedural Manual without exception relative to Pre-Test Protocol Meeting, Pre-Test Protocol submittal(s) and acceptance, Testing, Analyses and Final Report preparation and submittal.

73. BAGHOUSE - EBH 10 - MDAQMD PERMIT # C008473; consisting of:

A FBH 81TA 10-6, pulse type. This unit is powered by a 20 hp electric motor driven fan that produces a flow of approximately 5300 ACFM. There are 80 bags of 16 ounce/square

yard of polyester felt and they have a total filter area of 1,256 square feet and an A:C of 4.22::1.

PERMIT CONDITIONS; (UNLESS OTHERWISE STATED ALL CONDITIONS RESULT FROM RULE 204 - PERMIT CONDITIONS; VERSION IN SIP = CARB EX. ORDER G-73, 40 CFR 52.220(C)(39)(II)(B) - 11/09/78 43 FR 52237; CURRENT RULE VERSION = 07/25/77:

1. The owner/operator, (o/o), shall install, operate/maintain this equipment in strict accord with recommendations of the manufacturer and/or sound engineering practices.
2. The operating instructions shall be immediately available for use by the operator and provided to District personnel upon request.
3. This baghouse shall operate concurrently with the Blending Silo under valid District permit T008472.
4. The o/o shall have a continuing program of maintenance/inspections in accord with manufacturer's recommendations and specifications, which ensures compliance with District Rules. This program shall include, but not be limited to, regular opacity readings, pressure differential measurements, and maintenance inspections. Logging of data shall be required with the log kept on site for a minimum of five (5) years. This log shall be provided to District personnel on request.
5. This baghouse does not require regular emissions testing beyond that described in the ATC T008472, but the District may require testing at its discretion.

74. BAGHOUSE - EBH11 - MDAQMD PERMIT # C008474; consisting of:

A FBH 64C 10-L6, pulse type. This unit is powered by a 20 hp electric motor driven fan that produces a flow of approximately 5300 ACFM. There are 64 bags of 16 ounce/square yard of polyester felt and they have a total filter area of 1,005 square feet and an A:C of 5.27::1.

PERMIT CONDITIONS; (UNLESS OTHERWISE STATED ALL CONDITIONS RESULT FROM RULE 204 - PERMIT CONDITIONS; VERSION IN SIP = CARB EX. ORDER G-73, 40 CFR 52.220(C)(39)(II)(B) - 11/09/78 43 FR 52237; CURRENT RULE VERSION = 07/25/77:

1. The owner/operator, (o/o), shall install, operate/maintain this equipment in strict accord

with recommendations of the manufacturer and/or sound engineering practices.

2. The operating instructions shall be immediately available for use by the operator and provided to District personnel upon request.
3. This baghouse shall operate concurrently with the Blending Silo under valid District permit T008472.
4. The o/o shall have a continuing program of maintenance/inspections in accord with manufacturer's recommendations and specifications, which ensures compliance with District Rules. This program shall include, but not be limited to, regular opacity readings, pressure differential measurements, and maintenance inspections. Logging of data shall be required with the log kept on site for a minimum of 5 years. This log shall be provided to District personnel on request.
5. This baghouse does not require regular emissions testing beyond that described in the ATC T008472, but the District may require testing at its discretion.

GROUP # 4 - CLINKER STORAGE & HANDLING (QUARRY)

75. CLINKER RECLAIM SYSTEM - OUTSIDE STORAGE - MDAQMD PERMIT # B001676; consisting of:

Control: C001669 (HBH22) 20 hp.

Vibrating Feeders (7 @ 2.5 hp ea.) (only 4 run at a time)

Conveyor - HBC 12

Vibrating Feeders (6 @ 5hp ea.) (2 set of 3 @ 15 hp ea.)

PERMIT CONDITIONS; (UNLESS OTHERWISE STATED ALL CONDITIONS RESULT FROM RULE 204 - PERMIT CONDITIONS; VERSION IN SIP = CARB EX. ORDER G-73, 40 CFR 52.220(C)(39)(II)(B) - 11/09/78 43 FR 52237; CURRENT RULE VERSION = 07/25/77:

1. This equipment shall not be operated unless it is vented to the functioning air pollution control equipment covered by District valid permit No. C001669.

76. AIR POLLUTION CONTROL EQUIPMENT (HBH 22) - MDAQMD PERMIT # C001669; consisting of:

Serving Clinker Dome Clinker Reclaim System (B001676).

HBH22 - Baghouse, SWPC MK V, reverse pressurization, 150 6" x 166" bags. 3,255 sq.ft., 6,000 CFM. 20 hp.

PERMIT CONDITIONS; (UNLESS OTHERWISE STATED ALL CONDITIONS RESULT FROM RULE 204 - PERMIT CONDITIONS; VERSION IN SIP = CARB EX. ORDER G-73, 40 CFR 52.220(C)(39)(II)(B) - 11/09/78 43 FR 52237; CURRENT RULE VERSION = 07/25/77:

1. The owner/operator (o/o) shall operate this particulate control equipment in strict accordance with the manufacturer's specifications and/or sound engineering principles.
2. The o/o shall maintain a log of all inspections, repairs, and maintenance on this equipment and submit it to the District on request. The log shall be kept for a minimum period of five years.
3. The o/o shall maintain on-site, as a minimum, an inventory of replacement bags that assures compliance with applicable Rules of District Regulation IV.

77. CLINKER RECLAIM SYSTEM - STORAGE DOME - MDAQMD PERMIT # B001677; consisting of:

Controls: C000092 (HBH6) 18 hp; C000093 (HBH17) 18 hp; C001660 (HBH20) 30 hp.
Vibrating Feeders - 6 (2 sets @ 9.9 hp ea.)

Conveyor - HBC8

Conveyor - HBC9

1 1/3 hp Rotary Locks

PERMIT CONDITIONS; (UNLESS OTHERWISE STATED ALL CONDITIONS RESULT FROM RULE 204 - PERMIT CONDITIONS; VERSION IN SIP = CARB EX. ORDER G-73, 40 CFR 52.220(C)(39)(II)(B) - 11/09/78 43 FR 52237; CURRENT RULE VERSION = 07/25/77:

1. This equipment shall not be operated unless it is vented to the functioning air pollution control equipment covered by District valid permit Nos. C000092, C000093 and C001660.

78. AIR POLLUTION CONTROL EQUIPMENT (HBH 6) - MDAQMD PERMIT # C000092; consisting of:

Serving Clinker Loadout Conveyor (HBC8, under permit B001677).

HBH6 - Dust Collector System, Pulse jet envelope filter type DCE-Vokes 2 DCM-V 20/10 with twenty 19 oz. polyester felt (terylene) bags 1 meter long. 215 sq.ft. filtering area with 3 hp 1,000 CFM fan. A/C ratio 4.65:1 total of six identical units controlling transfer points from vibratory feeders 65-VF-31/33 to Belt 65-BC-1 and discharging to 65-BC-1. 18 hp.

PERMIT CONDITIONS; (UNLESS OTHERWISE STATED ALL CONDITIONS RESULT FROM RULE 204 - PERMIT CONDITIONS; VERSION IN SIP = CARB EX. ORDER G-73, 40 CFR 52.220(C)(39)(II)(B) - 11/09/78 43 FR 52237; CURRENT RULE VERSION = 07/25/77:

1. The owner/operator (o/o) shall operate this particulate control equipment in strict accordance with the manufacturer's specifications and/or sound engineering principles.
2. The o/o shall maintain a log of all inspections, repairs, and maintenance on this equipment and submit it to the District on request. The log shall be kept for a minimum period of five years.
3. The o/o shall maintain on-site, as a minimum, an inventory of replacement bags that assures compliance with applicable Rules of District Regulation IV.

79. AIR POLLUTION CONTROL EQUIPMENT (HBH 17) - MDAQMD PERMIT # C000093; consisting of:

Serving Clinker Loadout Conveyor (HBC9, under permit B001677).

HBH17 - Dust Collector Ssystem, Pulse jet envelope filter type DCE-Vokes 2 DCM-V 20/10 with twenty 19 oz. polyester felt (terylene) bags 1 meter long. 215 sq.ft. filtering area with hp 1,000 CFM fan. A/C ratio 4.65:1 total of six identical units controlling transfer points from vibratory feeders 65-VF-34/36 to Belt 65-BC-2 and discharging to 65-BC-2. 18 hp.

PERMIT CONDITIONS; (UNLESS OTHERWISE STATED ALL CONDITIONS RESULT FROM RULE 204 - PERMIT CONDITIONS; VERSION IN SIP = CARB EX. ORDER G-73, 40 CFR 52.220(C)(39)(II)(B) - 11/09/78 43 FR 52237; CURRENT RULE VERSION = 07/25/77:

1. The owner/operator (o/o) shall operate this particulate control equipment in strict

accordance with the manufacturer's specifications and/or sound engineering principles.

2. The o/o shall maintain a log of all inspections, repairs, and maintenance on this equipment and submit it to the District on request. The log shall be kept for a minimum period of five years.
3. The o/o shall maintain on-site, as a minimum, an inventory of replacement bags that assures compliance with applicable Rules of District Regulation IV.

80. AIR POLLUTION CONTROL EQUIPMENT (HBH 20) - MDAQMD PERMIT # C001660; consisting of:

Serving Clinker Loadout Conveyor 65-BC-1 and 65-BC-2 (B001677).
HBH20 - Dust Collector System Pulse jet type - Flexkleen 100 WRTC=96 (III) with 96 5.84" dia. x 100" 16 oz. felted polyester bags. 1,219 sq.ft. with 30 hp Buffalo 45 MW 7,000 CFM fan. A/C ratio 5.7:1.

PERMIT CONDITIONS; (UNLESS OTHERWISE STATED ALL CONDITIONS RESULT FROM RULE 204 - PERMIT CONDITIONS; VERSION IN SIP = CARB EX. ORDER G-73, 40 CFR 52.220(C)(39)(II)(B) - 11/09/78 43 FR 52237; CURRENT RULE VERSION = 07/25/77:

1. Particulate emissions shall not exceed a discharge grain loading of .02 grains per actual cubic foot.
2. The owner/operator (o/o) shall operate this particulate control equipment in strict accordance with the manufacturer's specifications and/or sound engineering principles.
3. The o/o shall maintain a log of all inspections, repairs, and maintenance on this equipment and submit it to the District on request. The log shall be kept for a minimum period of five years.
4. The o/o shall maintain on-site, as a minimum, an inventory of replacement bags that assures compliance with applicable Rules of District Regulation IV.

81. CLINKER RECLAIM SYSTEM - STORAGE SILO NO. 1 - MDAQMD PERMIT # B001678; consisting of:

Control: C001308 (HBH18) 30 hp.
Vibratory Feeders (4)

Air Locks - 2 @ 3/4 hp ea.

PERMIT CONDITIONS; (UNLESS OTHERWISE STATED ALL CONDITIONS RESULT FROM RULE 204 - PERMIT CONDITIONS; VERSION IN SIP = CARB EX. ORDER G-73, 40 CFR 52.220(C)(39)(II)(B) - 11/09/78 43 FR 52237; CURRENT RULE VERSION = 07/25/77:

1. This equipment shall not be operated unless it is vented to the functioning air pollution control equipment covered by District valid permit No. C001308.

82. AIR POLLUTION CONTROL EQUIPMENT (HBH 18) - MDAQMD PERMIT # C001308; consisting of:

Serving Clinker Loadout Conveyor 65-BC-1 (B001678).

HBH18 - Dust Collector System, Pulse jet type - Flexkleen 100 WRTC-96 (III) with 96 5.84" dia x 100" 16 oz. felted polyester bags. 1,219 sq.ft. with 30 hp Buffalo 45 MW 7,000 CFM fan. A/C ratio 5.7:1.

PERMIT CONDITIONS; (UNLESS OTHERWISE STATED ALL CONDITIONS RESULT FROM RULE 204 - PERMIT CONDITIONS; VERSION IN SIP = CARB EX. ORDER G-73, 40 CFR 52.220(C)(39)(II)(B) - 11/09/78 43 FR 52237; CURRENT RULE VERSION = 07/25/77:

1. Particulate emissions shall not exceed a discharge grain loading of .02 grains per actual cubic foot.
2. The owner/operator (o/o) shall operate this particulate control equipment in strict accordance with the manufacturer's specifications and/or sound engineering principles.
3. The o/o shall maintain a log of all inspections, repairs, and maintenance on this equipment and submit it to the District on request. The log shall be kept for a minimum period of five years.
4. The o/o shall maintain on-site, as a minimum, an inventory of replacement bags that assures compliance with applicable Rules of District Regulation IV.

83. CLINKER RECLAIM SYSTEM - STORAGE SILO NO. 2 - MDAQMD PERMIT # B001679; consisting of:

Control: C001300 (HBH19)

Vibratory Feeders - 4
Rotary Locks - 2 @ 3/4 hp ea.

PERMIT CONDITIONS; (UNLESS OTHERWISE STATED ALL CONDITIONS
RESULT FROM RULE 204 - PERMIT CONDITIONS; VERSION IN SIP = CARB EX.
ORDER G-73, 40 CFR 52.220(C)(39)(II)(B) - 11/09/78 43 FR 52237; CURRENT RULE
VERSION = 07/25/77:

1. This equipment shall not be operated unless it is vented to the functioning air pollution control equipment covered by District valid permit No. C001300.

84. AIR POLLUTION CONTROL EQUIPMENT (HBH 19) - MDAQMD PERMIT # C001300; consisting of:

Serving clinker loadout conveyor 65-BC-2 (B001679).
HBH19 - Dust Collector System, Pulse jet type - Flexkleen 100 WRTC-96 (III) with 96
5.894" x 100" 16 oz. felted polyester bags. 1,219 sq. ft. with 30 hp Buffalo 45 MW 7,000
CFM fan. A/C ratio 5.7:1. 30 hp.

PERMIT CONDITIONS; (UNLESS OTHERWISE STATED ALL CONDITIONS
RESULT FROM RULE 204 - PERMIT CONDITIONS; VERSION IN SIP = CARB EX.
ORDER G-73, 40 CFR 52.220(C)(39)(II)(B) - 11/09/78 43 FR 52237; CURRENT RULE
VERSION = 07/25/77:

1. Particulate emissions shall not exceed a discharge grain loading of .02 grains per actual cubic foot.
2. The owner/operator (o/o) shall operate this particulate control equipment in strict accordance with the manufacturer's specifications and/or sound engineering principles.
3. The o/o shall maintain a log of all inspections, repairs, and maintenance on this equipment and submit it to the District on request. The log shall be kept for a minimum period of five years.
4. The o/o shall maintain on-site, as a minimum, an inventory of replacement bags that assures compliance with applicable Rules of District Regulation IV.

85. CLINKER LOADOUT SYSTEM - RAIL - MDAQMD PERMIT # B000085; consisting of:

Control: C001670 (HBH21), C004871 (HBH12DC).
Conveyor (HBC 10)
Conveyor (HBC 11)

PERMIT CONDITIONS; (UNLESS OTHERWISE STATED ALL CONDITIONS
RESULT FROM RULE 204 - PERMIT CONDITIONS; VERSION IN SIP = CARB EX.
ORDER G-73, 40 CFR 52.220(C)(39)(II)(B) - 11/09/78 43 FR 52237; CURRENT RULE
VERSION = 07/25/77:

1. This equipment shall not be operated unless it is vented to functioning air pollution control equipment covered by valid District permits C001670, C004871 and C008567.

86. AIR POLLUTION CONTROL EQUIPMENT (HBH 21) - MDAQMD PERMIT # C001670; consisting of:

Serving Clinker Rail Loadout System (B000085).

HBH21 - Baghouse, SWPC MK V, reverse pressurization, 300 6" x 166" bags. 6,565 sq.ft. 11,500 CFM. 30 hp.

PERMIT CONDITIONS; (UNLESS OTHERWISE STATED ALL CONDITIONS
RESULT FROM RULE 204 - PERMIT CONDITIONS; VERSION IN SIP = CARB EX.
ORDER G-73, 40 CFR 52.220(C)(39)(II)(B) - 11/09/78 43 FR 52237; CURRENT RULE
VERSION = 07/25/77:

1. The owner/operator (o/o) shall operate this particulate control equipment in strict accordance with the manufacturer's specifications and/or sound engineering principles.
2. The o/o shall maintain a log of all inspections, repairs, and maintenance on this equipment and submit it to the District on request. The log shall be kept for a minimum period of five years.
3. The o/o shall maintain on-site, as a minimum, an inventory of replacement bags that assures compliance with applicable Rules of District Regulation IV.

87. BAGHOUSE (HBH23) - MDAQMD PERMIT # C004871; consisting of:

A baghouse at an elevator which serves the clinker railcar loading area (B000085) and the clinker outside storage reclaim system (B007709), manufactured by Flex-Kleen, Model No. 120-WSTS-49 Arr. III, with a 15 hp exhaust fan generating 4000 cfm through 750 sq. ft. of bags (air to cloth of 5.3:1).

PERMIT CONDITIONS; (UNLESS OTHERWISE STATED ALL CONDITIONS RESULT FROM RULE 204 - PERMIT CONDITIONS; VERSION IN SIP = CARB EX. ORDER G-73, 40 CFR 52.220(C)(39)(II)(B) - 11/09/78 43 FR 52237; CURRENT RULE VERSION = 07/25/77:

1. The owner/operator (o/o) shall operate/maintain this equipment in strict accord with recommendations of the manufacturer and/or sound engineering practices.
2. The operating instructions shall be immediately available for use by the operator and provided to District personnel upon request.
3. This equipment shall be operated concurrently with the Elevator which serves the clinker railcar loading area covered in District permit B000085 and the belt conveyor which serves the outside clinker storage pile reclaim system covered in District Permit B007709.
4. The o/o shall have a continuing program of maintenance/inspections in accord with manufacturer's recommendations and specifications, which ensures compliance with District Rules. This program shall include, but not be limited to, regular opacity readings, pressure differential measurements, and maintenance inspections. Logging of these data shall be required with the log kept on-site for a minimum of five years. This log shall be provided to District personnel on request.
5. Within sixty days of initial start-up, the o/o shall conduct a compliance test in accordance with the District Compliance Test Procedural Manual. This test is required to show compliance with permit conditions and Rules 404 and 405. The District shall be notified at least 10 working days prior to the test date. The test report shall be submitted to the District within 45 days following the tests.

88. N002209; GASOLINE DISPENSING FACILITY (NON RETAIL); Consisting of:

PERMIT CONDITIONS; (UNLESS OTHERWISE STATED ALL CONDITIONS RESULT FROM RULE 204 - PERMIT CONDITIONS; VERSION IN SIP = CARB EX. ORDER G-73, 40 CFR 52.220(C)(39)(II)(B) - 11/09/78 43 FR 52237; CURRENT RULE VERSION = 07/25/77:

1. The toll-free telephone number that must be posted is 1-800-635-4617.
2. The owner/operator (o/o) shall maintain a log of all inspections, repairs, and

maintenance on equipment subject to Rule 461. Such logs or records shall be maintained at the facility for at least two (2) years and shall be available to the District upon request.

3. Any modifications or changes to the piping or control fittings of the vapor recovery system requires prior approval from the District.

89. IC ENGINE, EMERGENCY DIESEL GENERATOR; District Permit Number E001910; Consisting of:

One 1,000 kW standby generator, skid mounted, weather enclosed, Steward & Stevenson Services with GM Electromotive Diesel Engine, work order No. 65487; manufactured 2/10/72. Equivalent hp - 1,341.

PERMIT CONDITIONS; (UNLESS OTHERWISE STATED ALL CONDITIONS RESULT FROM RULE 204 - PERMIT CONDITIONS; VERSION IN SIP = CARB EX. ORDER G-73, 40 CFR 52.220(C)(39)(II)(B) - 11/09/78 43 FR 52237; CURRENT RULE VERSION = 07/25/77:

1. Operation of this equipment shall be conducted in accordance with all data and specifications submitted with the application under which this permit is issued unless otherwise noted below.
2. This equipment shall be installed, operated and maintained in strict accord with those recommendations of the manufacturer/supplier and/or sound engineering principles, which produce the minimum emissions of contaminants.
3. This unit shall be limited to use for emergency power, defined as when commercially available power has been interrupted, and as part of a testing program, which does not exceed 60 minutes of operation per week.
4. The owner/operator (o/o) shall use only diesel fuel whose sulfur concentration is less than or equal to 0.05% on a weight per weight basis in this unit.
5. The o/o shall maintain a log for this unit, which, at a minimum, contains the information specified below. This log shall be maintained current and on-site for a minimum of five (5) years and shall be provided to District personnel on request:
 - a. Date of each use;
 - b. Duration of each use, in minutes;
 - c. Fuel consumed during each calendar year, in gallons;
 - d. Fuel sulfur concentration (the o/o may use the supplier's certification of

sulfur content if it is maintained as part of this log).

90. IC ENGINE AIR COMPRESSOR, EMERGENCY; District Permit Number E004732; Consisting of:

One Caterpillar, Diesel fired internal combustion engine, Model No. 3208T and Serial No. 03 Z07007, Turbo Charged, producing 200 bhp with 8 cylinders at 1800 rpm while consuming a maximum of. This equipment powers a Compressor.

PERMIT CONDITIONS; (UNLESS OTHERWISE STATED ALL CONDITIONS RESULT FROM RULE 204 - PERMIT CONDITIONS; VERSION IN SIP = CARB EX. ORDER G-73, 40 CFR 52.220(C)(39)(II)(B) - 11/09/78 43 FR 52237; CURRENT RULE VERSION = 07/25/77:

1. Operation of this equipment shall be conducted in accordance with all data and specifications submitted with the application under which this permit is issued unless otherwise noted below.
2. This equipment shall be installed, operated and maintained in strict accord with those recommendations of the manufacturer/supplier and/or sound engineering principles, which produce the minimum emissions of contaminants.
3. This unit shall be limited to use for emergency power, defined as when commercially available power has been interrupted, and as part of a testing program which does not exceed 60 minutes of operation per week (up to two hours once per year for annual testing and up to four hours once every three years for triennial testing).
4. The owner/operator (o/o) shall use only diesel fuel whose sulfur concentration is less than or equal to 0.05% on a weight per weight basis in this unit.
5. A timer shall be installed and maintained on this unit to indicate elapsed engine operating time.
6. The o/o shall maintain a log for this unit, which, at a minimum, contains the information specified below. This log shall be maintained current and on-site for a minimum of five (5) years and shall be provided to District personnel on request:
 - a. Date of each use;
 - b. Duration of each use, in minutes;
 - c. Annual operation in terms of total calendar year fuel use (in gallons) or hours;
 - d. Fuel sulfur concentration (the o/o may use the supplier's certification of

sulfur content if it is maintained as part of this log).

91. **TANK – WASTE OIL; District Permit Number T004582; Consisting of:**
Aboveground, 1,000 gallon steel tank that is 64" diameter and 72" long:

PERMIT CONDITIONS; (UNLESS OTHERWISE STATED ALL CONDITIONS
RESULT FROM RULE 204 - PERMIT CONDITIONS; VERSION IN SIP = CARB EX.
ORDER G-73, 40 CFR 52.220(C)(39)(II)(B) - 11/09/78 43 FR 52237; CURRENT RULE
VERSION = 07/25/77:

1. Operation of this equipment shall be conducted in compliance with data and specifications submitted with the application under which this permit is issued unless otherwise noted below.
2. Materials that may be stored in this tank are limited to internally generated waste oils.

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CEMEX California Cement LLC
River Plant and Black Mountain Quarry Plant
Permit Number: 100005

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MACT STANDARD -- PORTLAND CEMENT MANUFACTURING INDUSTRY

40 CFR 63 Subpart LLL

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Effective Date
June 14, 199

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Affected Sources

Pollutant
Emission limit by Source Type

Monitoring and Compliance

40 CFR 63.1340(b)

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Performance Testing

Monitoring Requirements^{2 & 3}

Area
Major
Code
Method
Code
Initial Compliance Date

Frequency
Method
Code
Frequency

40 CFR

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40 CFR
Existing
New

40 CFR

Applicability
HCl
Less than 10 tpy
10 or more tpy

Methods 320 or 321
63.1352(a)

CAA 112(a)(1) & (2)

Methods 26 or 26A
63.1352(b)

CAA 112(a)(1) & (2)

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HAPs
Less than 10/25 tpy
10/25 or more tpy

Method 18 or 320
63.1352(c)

CAA 112(a)(1) & (2)

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All kiln and in-line kiln/raw mill
PM

0.30 lb per ton of feed (dry basis)¹⁰

63.1343(b)(1)

Method 5

63.1349(b)(1)

June 14, 2002
on Start up

5 years

PM CEMS⁷

63.1350(k)

Continuous

Opacity

63.1343(b)(2)

COM

63.1349(b)(1)(v)

June 14, 2002
on Start up

Continuous

COM

63.1350(c)(1)

Continuous

20

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Method 9
63.1349(b)(1)(vi)

June 14, 2002
on Start up

Daily
Method 9
63.1350(c)(2)
Daily

PMCD inlet greater than 400°

Dioxins/furans
 8.7×10^{-11} gr per dscf @ 7% O₂
 8.7×10^{-11} gr per dscf @ 7% O₂
63.1343(b)(3)
Method 23
63.1349(b)(3)

June 14, 2002
on Start up

30 months
Temperature
63.1350(f)
Continuous

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Inspection⁴
63.1350(l)
Annual

PMCD inlet equal to or less than 400° F
Dioxins/furans
 1.7×10^{-10} gr per dscf @ 7% O₂
 1.7×10^{-10} gr per dscf @ 7% O₂
63.1343(b)(3)
Method 23
63.1349(b)(3)

June 14, 2002
on Start up

30 months
Temperature
63.1350(f)
Continuous

Inspection⁴
63.1350(l)

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Annual

Kiln and in-line kiln/raw mill, new Greenfield

THC

50 ppmvd as propane @ 7% O₂

50 ppmvd as propane @ 7% O₂

63.1343(c)(4)

SP-8A

63.1349(b)(4)

June 14, 2002
on Start up

5 years

SP-8A

63.1350(h)

Continuous

Clinker cooler

PM

0.10 lbs per ton of feed (dry basis)

63.1345(a)(1)

Method 5

63.1349(b)(1)

June 14, 2002
on Start up

5 years

Opacity

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63.1345(a)(2) COM 63.1349(b)(1)(v)	June 14, 2002 on Start up	10
Continuous COM 63.1350(d)(1) Continuous		
Method 9 63.1349(b)(1)(vi)	June 14, 2002 on Start up	
Daily Method 9 63.1350(d)(2) Daily		
Raw mill Opacity		
63.1347 Method 9		10

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63.1349(b)(2)	June 14, 2002 on Start up	
5 years Method 22 - 6m ⁸ 63.1350(e) Daily ⁹		
Finish mill Opacity		
63.1347 Method 9 63.1349(b)(2)	June 14, 2002 on Start up	10
5 years Method 22 - 6m ⁸ 63.1350(e) Daily ⁹		
Raw material dryer, new Brownfield Opacity		
63.1346(a) Method 9 63.1349(b)(2)	June 14, 2002 on Start up	10
5 years		

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Method 22 - 1m⁸
63.1350(a)(4) & (j)
M/SA/A⁵

Raw material dryer, new Greenfield
THC
50 ppmvd as propane @ 7% O2
50 ppmvd as propane @ 7% O2
63.1346(b) & (c)(1)
SP-8A
63.1349(b)(4)

June 14, 2002
on Start up

5 years
SP-8A
63.1350(h)
Continuous

Opacity

63.1346(c)(2)
Method 9
63.1349(b)(2)

June 14, 2002
on Start up

5 years
Method 22 - 1m⁸
63.1350(a)(4) & (j)
M/SA/A⁵

10

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Raw material, clinker, or finished product storage bin Opacity					10
63.1348 Method 9 63.1349(b)(2)					
			June 14, 2002 on Start up		
5 years Method 22 - 1m ⁸ 63.1350(a)(4) & (j) M/SA/A ⁵					
Conveying system transfer point ¹ Opacity					10
63.1348 Method 9 63.1349(b)(2)					
			June 14, 2002 on Start up		
5 years Method 22 - 1m ⁸ 63.1350(a)(4) & (j) M/SA/A ⁵					
Bagging system					10

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63.1348
Method 9
63.1349(b)(2)

June 14, 2002
on Start up

5 years
Method 22 - 1m⁸
63.1350(a)(4) & (j)
M/SA/A⁵

Bulk loading or unloading system

63.1348
Method 9
63.1349(b)(2)

June 14, 2002
on Start up

5 years
Method 22 - 1m⁸
63.1350(a)(4) & (j)
M/SA/A⁵

Alkali Bypass

63.1344(a)(3) & (b)

10

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Carbon Injection

63.1344(c)

Injection Rate
63.1350(g)
Continuous

FOOTNOTES

NOTIFICATION - 40 CFR 63.1353

1. Starting at raw material storage prior to raw mill

Initial

Oct. 12, 1999
63.9(b)(2)

2. Operation and Maintenance (O&M) Plan 40 CFR 63.1350(a)

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Performance Test
60 days prior
63.9(e)

3. Startup, Shutdown or Malfunction (SSM) Plan 40 CFR 63.6(e)(3)

Opacity Test

30 days prior
63.9(f)

4. Inspection of combustion system

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CMS

60 days prior
63.9(g)

5. Monthly for 6 months, if no visible emissions for 6 months then semi-annual & then annual; if visible emissions back to monthly Method 22

Compliance Status
60 days after test
63.9(h)

6. Within 2 working days by phone, FAX, email. When written report.

7. Deferred

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Reporting - 40 CFR 63.1354

8. 'Method 22 - 6m' is a 6-minute Method 22 & 'Method 22 - 1m' is a 1-minute Method 22

Test results

within 60 days
63.10(d)(2)

9. If visible emissions then take corrective action within 1-hour per O&M Plan, follow-up Method 22 within 24-hours & if visible emissions conduct a 30-minute Method 9 within 1-hour.

Opacity Results

within 30 days
63.10(d)(3)

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10. Metric units for emission limits:

Extended Compliance
within 30 days
63.10(d)(4)

All kiln and in-line kiln/raw mill

Consistent with SSM
every 6 months
63.10(d)(5)(i)

0.15 kg per Mg

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Not consistent with SSM
2 working days ⁶
63.10(d)(5)(ii)

Dioxins/furans

CMS & COMS Evaluations
within 60 days
63.8(e)(5)

0.20 ng per dscm @ 7% O₂

PMCD inlet greater than 400°

Summary Report
Semiannually
63.10(e)(3)(vi)

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0.40 ng per dscm @ 7% O₂

PMCD inlet equal to or less than 400°

Clinker Cooler

Record keeping - 40 CFR 63.1355

0.05 kg per Mg

P

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Record Retention
5 years
63.10(b)(1)

Retention on-site
2 years
63.10(b)(1)

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90. Subpart LLL--National Emission Standards For Hazardous Air Pollutants From The Portland Cement Manufacturing Industry

General

63.1340

Applicability And Designation Of Affected Sources.

63.1341

Definitions.

Emission Standards And Operating Limits

63.1342

Standards: General.

63.1343

Standards For Kilns And In-Line Kiln/Raw Mills.

63.1344

Operating Limits For Kilns And In-Line Kiln/Raw Mills.

63.1345

Standards For Clinker Coolers.

63.1346

Standards For New And Reconstructed Raw Material Dryers.

63.1347

Standards For Raw And Finish Mills.

63.1348

Standards For Affected Sources Other Than Kilns; In-Line Kiln

Raw Mills; Clinker Coolers; New And Reconstructed Raw

Material Dryers; And Raw And Finish Mills.

Monitoring And Compliance Provisions

63.1349

Performance Testing Requirements.

63.1350

Monitoring Requirements.

63.1351

Compliance Dates.

63.1352

Additional Test Methods.

Notification, Reporting And Recordkeeping

63.1353

Notification Requirements.

63.1354

Reporting Requirements.

63.1355

Recordkeeping Requirements.

Other

63.1356

Exemption From New Source Performance Standards.

63.1357

Temporary, Conditioned Exemption From Particulate And
Opacity Standards.

63.1358

Delegation Of Authority.

63.1359

[Reserved]

Table 1

To

Subpart

LLL

40 CFR 63.1340 Applicability And Designation Of Affected Sources.

(a) Except as specified in paragraphs (b) and (c) of this section, the provisions of this subpart apply to each new and existing portland cement plant which is a major source or an area source as defined in §63.2.

(b) The affected sources subject to this subpart are:

(b)(1) Each kiln and each in-line kiln/raw mill at any major or area source, including alkali bypasses, except for kilns and in-line kiln/raw mills that burn hazardous waste and are subject to and regulated under subpart EEE of this part;

(b)(2) Each clinker cooler at any portland cement plant which is a major source;

(b)(3) Each raw mill at any portland cement plant which is a major source;

(b)(4) Each finish mill at any portland cement plant which is a major source;

(b)(5) Each raw material dryer at any portland cement plant which is a major source and each greenfield raw material dryer at any portland cement plant which is a major or area source;

(b)(6) Each raw material, clinker, or finished product storage bin at any portland cement plant which is a major source;

(b)(7) Each conveying system transfer point at any portland cement plant which is a major source;

(b)(8) Each bagging system at any portland cement plant which is a major

source; and

(b)(9) Each bulk loading or unloading system at any portland cement plant which is a major source.

(c) For portland cement plants with on-site nonmetallic mineral processing facilities, the first affected source in the sequence of materials handling operations subject to this subpart is the raw material storage, which is just prior to the raw mill. The primary and secondary crushers and any other equipment of the on-site nonmetallic mineral processing plant which precedes the raw material storage are not subject to this subpart. Furthermore, the first conveyor transfer point subject to this subpart is the transfer point associated with the conveyor transferring material from the raw material storage to the raw mill.

(d) The owner or operator of any affected source subject to the provisions of this subpart is subject to title V permitting requirements.

[64 FR 31898, June 14, 1999]

40 CFR 63.1341 Definitions.

All terms used in this subpart that are not defined in this section have the meaning given to them in the CAA and in subpart A of this part.

Alkali bypass means a duct between the feed end of the kiln and the preheater tower through which a portion of the kiln exit gas stream is withdrawn and quickly cooled by air or water to avoid excessive buildup of alkali, chloride and/or sulfur on the raw feed. This may also be referred to as the "kiln exhaust gas bypass".

Bagging system means the equipment which fills bags with portland cement.

Clinker cooler means equipment into which clinker product leaving the kiln is placed to be cooled by air supplied by a forced draft or natural draft supply system.

Continuous monitor means a device which continuously samples the regulated parameter specified in §63.1350 of this subpart without interruption, evaluates the detector response at least once every 15 seconds, and computes and records the average value at least every 60 seconds, except during allowable periods of calibration and except as defined otherwise by the continuous emission monitoring system performance specifications in appendix B to part 60 of this chapter.

Conveying system means a device for transporting materials from one piece of equipment or location to another location within a facility. Conveying systems include but are not limited to the following: feeders, belt conveyors,

bucket elevators and pneumatic systems.

Conveying system transfer point means a point where any material including but not limited to feed material, fuel, clinker or product, is transferred to or from a conveying system, or between separate parts of a conveying system.

Dioxins and furans (D/F) means tetra-, penta-, hexa-, hepta-, and octa-chlorinated dibenzo dioxins and furans.

Facility means all contiguous or adjoining property that is under common ownership or control, including properties that are separated only by a road or other public right-of-way.

Feed means the prepared and mixed materials, which include but are not limited to materials such as limestone, clay, shale, sand, iron ore, mill scale, cement kiln dust and flyash, that are fed to the kiln. Feed does not include the fuels used in the kiln to produce heat to form the clinker product.

Finish mill means a roll crusher, ball and tube mill or other size reduction equipment used to grind clinker to a fine powder. Gypsum and other materials may be added to and blended with clinker in a finish mill. The finish mill also includes the air separator associated with the finish mill.

Greenfield kiln, in-line kiln/raw mill, or raw material dryer means a kiln, in-line kiln/raw mill, or raw material dryer for which construction is commenced at a plant site (where no kilns and no in-line kiln/raw mills were in operation at any time prior to March 24, 1998) after March 24, 1998.

Hazardous waste is defined in §261.3 of this chapter.

In-line kiln/raw mill means a system in a portland cement production process where a dry kiln system is integrated with the raw mill so that all or a portion of the kiln exhaust gases are used to perform the drying operation of the raw mill, with no auxiliary heat source used. In this system the kiln is capable of operating without the raw mill operating, but the raw mill cannot operate without the kiln gases, and consequently, the raw mill does not generate a separate exhaust gas stream.

Kiln means a device, including any associated preheater or precalciner devices, that produces clinker by heating limestone and other materials for subsequent production of portland cement.

Kiln exhaust gas bypass means alkali bypass.

Monovent means an exhaust configuration of a building or emission control device (e. g. positive pressure fabric filter) that extends the length of the structure and has a width very small in relation to its length (i. e., length to width ratio is typically greater than 5:1). The exhaust may be an open vent with or without a roof, louvered vents, or a combination of such features.

New brownfield kiln, in-line kiln raw mill, or raw material dryer means a kiln, in-line kiln/raw mill or raw material dryer for which construction is commenced at

a plant site (where kilns and/or in-line kiln/raw mills were in operation prior to March 24, 1998) after March 24, 1998.

One-minute average means the average of thermocouple or other sensor responses calculated at least every 60 seconds from responses obtained at least once during each consecutive 15 second period.

Portland cement plant means any facility manufacturing portland cement.

Raw material dryer means an impact dryer, drum dryer, paddle-equipped rapid dryer, air separator, or other equipment used to reduce the moisture content of feed materials.

Raw mill means a ball and tube mill, vertical roller mill or other size reduction equipment, that is not part of an in-line kiln/raw mill, used to grind feed to the appropriate size. Moisture may be added or removed from the feed during the grinding operation. If the raw mill is used to remove moisture from feed materials, it is also, by definition, a raw material dryer. The raw mill also includes the air separator associated with the raw mill.

Rolling average means the average of all one-minute averages over the averaging period.

Run average means the average of the one-minute parameter values for a run.

TEQ means the international method of expressing toxicity equivalents for dioxins and furans as defined in U.S. EPA, Interim Procedures for Estimating Risks Associated with Exposures to Mixtures of Chlorinated Dibenzo-p-dioxins and -dibenzofurans (CDDs and CDFs) and 1989 Update, March 1989.

[64 FR 31898, June 14, 1999]

40 CFR 63.1342 Standards: General.

(a) Table 1 to this subpart provides cross references to the 40 CFR part 63, subpart A, general provisions, indicating the applicability of the general provisions requirements to subpart LLL.

(b) Table 1 of this section provides a summary of emission limits and operating limits of this subpart.

TABLE 1 TO §63.1342.--EMISSION LIMITS AND OPERATING LIMITS

Affected source	Pollutant or opacity	Emission and operating limit
All kilns and in-line kiln/raw mills at major sources (including alkali bypass).	PM..... Opacity.....	0.15 kg/Mg of feed (dry basis). 20 percent.
All kilns and in-line kiln/raw mills at	D/F.....	0.20 ng TEQ/dscm

major and area sources (including alkali bypass).		or 0.40 ng TEQ/dscm when the average of the performance test run average particulate matter control device (PMCD) inlet temperatures is 204°C or less. [Corrected to 7 percent oxygen] Operate such that the three- hour rolling average PMCD inlet temperature is no greater than the temperature established at performance test. If activated carbon injection is used: Operate such that the three-hour rolling average activated carbon injection rate is no less than rate established at performance test. Operate such that either the carrier gas flow rate or carrier gas pressure drop exceeds the value established at performance test. Inject carbon of equivalent specifications to that used at performance test.
New greenfield kilns and in-line kiln/ raw mills at major and area sources.		THC..... 50 ppmvd, as propane, corrected to 7 percent oxygen.
All clinker coolers at major sources.		PM..... 0.050 kg/Mg of feed (dry basis) Opacity..... 10 percent.
All raw mills and finish mills at major sources.		Opacity..... 10 percent.
New greenfield raw material dryers at major and area sources.		THC..... 50 ppmvd, as propane, corrected to 7 percent oxygen.
All raw material dryers and material handling points at major sources.		Opacity..... 10 percent.
-----+-----+-----		

[64 FR 31898, June 14, 1999]

40 CFR 63.1343 Standards For Kilns And In-Line Kiln/Raw Mills.

(a) General. The provisions in this section apply to each kiln, each in-line kiln/raw mill, and any alkali bypass associated with that kiln or in-line kiln/raw mill.

(b) Existing, reconstructed, or new brownfield/major sources. No owner or operator of an existing, reconstructed or new brownfield kiln or an existing, reconstructed or new brownfield in-line kiln/raw mill at a facility that is a major source subject to the provisions of this subpart shall cause to be discharged into the atmosphere from these affected sources, any gases which:

(b)(1) Contain particulate matter (PM) in excess of 0.15 kg per Mg (0.30 lb per ton) of feed (dry basis) to the kiln. When there is an alkali bypass associated with a kiln or in-line kiln/raw mill, the combined particulate matter emissions from the kiln or in-line kiln/raw mill and the alkali bypass are subject to this emission limit.

(b)(2) Exhibit opacity greater than 20 percent.

(b)(3) Contain D/F in excess of:

(b)(3)(i) 0.20 ng per dscm (8.7×10^{-11} gr per dscf) (TEQ) corrected to seven percent oxygen; or

(b)(3)(ii) 0.40 ng per dscm (1.7×10^{-10} gr per dscf) (TEQ) corrected to seven percent oxygen, when the average of the performance test run average temperatures at the inlet to the particulate matter control device is 204°C (400°F) or less.

(c) Greenfield/major sources. No owner or operator that commences construction of a greenfield kiln or greenfield inline kiln/raw mill at a facility which is a major source subject to the provisions of this subpart shall cause to be discharged into the atmosphere from these affected sources any gases which:

(c)(1) Contain particulate matter in excess of 0.15 kg per Mg (0.30 lb per ton) of feed (dry basis) to the kiln. When there is an alkali bypass associated with a kiln or in-line kiln/raw mill, the combined particulate matter emissions from the kiln or in-line kiln/raw mill and the bypass stack are subject to this emission limit.

(c)(2) Exhibit opacity greater than 20 percent.

(c)(3) Contain D/F in excess of:

(c)(3)(i) 0.20 ng per dscm (8.7×10^{-11} gr per dscf) (TEQ) corrected to seven

percent oxygen; or

(c)(3)(ii) 0.40 ng per dscm (1.7×10^{-10} gr per dscf) (TEQ) corrected to seven percent oxygen, when the average of the performance test run average temperatures at the inlet to the particulate matter control device is 204°C (400°F) or less.

(c)(4) Contain total hydrocarbon (THC), from the main exhaust of the kiln or in-line kiln/raw mill, in excess of 50 ppmvd as propane, corrected to seven percent oxygen.

(d) Existing, reconstructed, or new brownfield/area sources. No owner or operator of an existing, reconstructed, or new brownfield kiln or an existing, reconstructed or new brownfield in-line kiln/raw mill at a facility that is an area source subject to the provisions of this subpart shall cause to be discharged into the atmosphere from these affected sources any gases which contain D/F in excess of:

(d)(1) 0.20 ng per dscm (8.7×10^{-11} gr per dscf) (TEQ) corrected to seven percent oxygen; or

(d)(2) 0.40 ng per dscm (1.7×10^{-10} gr per dscf) (TEQ) corrected to seven percent oxygen, when the average of the performance test run average temperatures at the inlet to the particulate matter control device is 204°C (400°F) or less.

(e) Greenfield/area sources. No owner or operator of a greenfield kiln or a greenfield in-line kiln/raw mill at a facility that is an area source subject to the provisions of this subpart shall cause to be discharged into the atmosphere from these affected sources any gases which:

(e)(1) Contain D/F in excess of:

(e)(1)(i) 0.20 ng per dscm (8.7×10^{-11} gr per dscf) (TEQ) corrected to seven percent oxygen; or

(e)(1)(ii) 0.40 ng per dscm (1.7×10^{-11} gr per dscf) (TEQ) corrected to seven percent oxygen, when the average of the performance test run average temperatures at the inlet to the particulate matter control device is 204°C (400°F) or less.

(e)(2) Contain THC, from the main exhaust of the kiln or in-line kiln/ raw mill, in excess of 50 ppmvd as propane, corrected to seven percent oxygen.

[64 FR 31898, June 14, 1999]

40 CFR 63.1344 Operating Limits For Kilns And In-Line Kiln/Raw Mills.

(a) The owner or operator of a kiln subject to a D/F emission limitation under

§63.1343 must operate the kiln such that the temperature of the gas at the inlet to the kiln particulate matter control device (PMCD) and alkali bypass PMCD, if applicable, does not exceed the applicable temperature limit specified in paragraph (b) of this section. The owner or operator of an in-line kiln/raw mill subject to a D/F emission limitation under §63.1343 must operate the in-line kiln/raw mill, such that:

(a)(1) When the raw mill of the in-line kiln/raw mill is operating, the applicable temperature limit for the main in-line kiln/raw mill exhaust, specified in paragraph (b) of this section and established during the performance test when the raw mill was operating is not exceeded.

(a)(2) When the raw mill of the in-line kiln/raw mill is not operating, the applicable temperature limit for the main in-line kiln/raw mill exhaust, specified in paragraph (b) of this section and established during the performance test when the raw mill was not operating, is not exceeded.

(a)(3) If the in-line kiln/raw mill is equipped with an alkali bypass, the applicable temperature limit for the alkali bypass, specified in paragraph (b) of this section and established during the performance test when the raw mill was operating, is not exceeded.

(b) The temperature limit for affected sources meeting the limits of paragraph (a) of this section or paragraphs (a)(1) through (a)(3) of this section is determined in accordance with §63.1349(b)(3)(iv).

(c) The owner or operator of an affected source subject to a D/F emission limitation under §63.1343 that employs carbon injection as an emission control technique must operate the carbon injection system in accordance with paragraphs (c)(1) and (c)(2) of this section.

(c)(1) The three-hour rolling average activated carbon injection rate shall be equal to or greater than the activated carbon injection rate determined in accordance with §63.1349(b)(3)(vi).

(c)(2) The owner or operator shall either:

(c)(2)(i) Maintain the minimum activated carbon injection carrier gas flow rate, as a three-hour rolling average, based on the manufacturer's specifications. These specifications must be documented in the test plan developed in accordance with §63.7(c), or

(c)(2)(ii) Maintain the minimum activated carbon injection carrier gas pressure drop, as a three-hour rolling average, based on the manufacturer's specifications. These specifications must be documented in the test plan developed in accordance with §63.7(c).

(d) Except as provided in paragraph (e) of this section, the owner or operator of an affected source subject to a D/F emission limitation under §63.1343 that employs carbon injection as an emission control technique must specify and

use the brand and type of activated carbon used during the performance test until a subsequent performance test is conducted, unless the site-specific performance test plan contains documentation of key parameters that affect adsorption and the owner or operator establishes limits based on those parameters, and the limits on these parameters are maintained.

(e) The owner or operator of an affected source subject to a D/F emission limitation under §63.1343 that employs carbon injection as an emission control technique may substitute, at any time, a different brand or type of activated carbon provided that the replacement has equivalent or improved properties compared to the activated carbon specified in the site-specific performance test plan and used in the performance test. The owner or operator must maintain documentation that the substitute activated carbon will provide the same or better level of control as the original activated carbon.

[64 FR 31898, June 14, 1999]

40 CFR 63.1345 Standards For Clinker Coolers.

(a) No owner or operator of a new or existing clinker cooler at a facility which is a major source subject to the provisions of this subpart shall cause to be discharged into the atmosphere from the clinker cooler any gases which:

(a)(1) Contain particulate matter in excess of 0.050 kg per Mg (0.10 lb per ton) of feed (dry basis) to the kiln.

(a)(2) Exhibit opacity greater than ten percent.

(b) [Reserved].

[64 FR 31898, June 14, 1999]

40 CFR 63.1346 Standards For New And Reconstructed Raw Material Dryers.

(a) Brownfield/major sources. No owner or operator of a new or reconstructed brownfield raw material dryer at a facility which is a major source subject to this subpart shall cause to be discharged into the atmosphere from the new or reconstructed raw material dryer any gases which exhibit opacity greater than ten percent.

(b) Greenfield/area sources. No owner or operator of a greenfield raw material dryer at a facility which is an area source subject to this subpart shall cause to be discharged into the atmosphere from the greenfield raw material dryer any

gases which contain THC in excess of 50 ppmvd, reported as propane, corrected to seven percent oxygen.

(c) Greenfield/major sources. No owner or operator of a greenfield raw material dryer at a facility which is a major source subject to this subpart shall cause to be discharged into the atmosphere from the greenfield raw material dryer any gases which:

(c)(1) Contain THC in excess of 50 ppmvd, reported as propane, corrected to seven percent oxygen.

(c)(2) Exhibit opacity greater than ten percent.

[64 FR 31898, June 14, 1999]

40 CFR 63.1347 Standards For Raw And Finish Mills.

The owner or operator of each new or existing raw mill or finish mill at a facility which is a major source subject to the provisions of this subpart shall not cause to be discharged from the mill sweep or air separator air pollution control devices of these affected sources any gases which exhibit opacity in excess of ten percent.

[64 FR 31898, June 14, 1999]

40 CFR 63.1348 Standards For Affected Sources Other Than Kilns; In-Line Kiln/Raw Mills; Clinker Coolers; New And Reconstructed Raw Material Dryers; And Raw And Finish Mills.

The owner or operator of each new or existing raw material, clinker, or finished product storage bin; conveying system transfer point; bagging system; and bulk loading or unloading system; and each existing raw material dryer, at a facility which is a major source subject to the provisions of this subpart shall not cause to be discharged any gases from these affected sources which exhibit opacity in excess of ten percent.

[64 FR 31898, June 14, 1999]

40 CFR 63.1349 Performance Testing Requirements.

(a) The owner or operator of an affected source subject to this subpart shall demonstrate initial compliance with the emission limits of §63.1343 and

§§63.1345 through 63.1348 using the test methods and procedures in paragraph (b) of this section and §63.7. Performance test results shall be documented in complete test reports that contain the information required by paragraphs (a)(1) through (a)(10) of this section, as well as all other relevant information. The plan to be followed during testing shall be made available to the Administrator prior to testing, if requested.

(a)(1) A brief description of the process and the air pollution control system;

(a)(2) Sampling location description(s);

(a)(3) A description of sampling and analytical procedures and any modifications to standard procedures;

(a)(4) Test results;

(a)(5) Quality assurance procedures and results;

(a)(6) Records of operating conditions during the test, preparation of standards, and calibration procedures;

(a)(7) Raw data sheets for field sampling and field and laboratory analyses;

(a)(8) Documentation of calculations;

(a)(9) All data recorded and used to establish parameters for compliance monitoring; and

(a)(10) Any other information required by the test method.

(b) Performance tests to demonstrate initial compliance with this subpart shall be conducted as specified in paragraphs (b)(1) through (b)(4) of this section.

(b)(1) The owner or operator of a kiln subject to limitations on particulate matter emissions shall demonstrate initial compliance by conducting a performance test as specified in paragraphs (b)(1)(i) through (b)(1)(iv) of this section. The owner or operator of an in-line kiln/raw mill subject to limitations on particulate matter emissions shall demonstrate initial compliance by conducting separate performance tests as specified in paragraphs (b)(1)(i) through (b)(1)(iv) of this section while the raw mill of the in-line kiln/raw mill is under normal operating conditions and while the raw mill of the in-line kiln/raw mill is not operating. The owner or operator of a clinker cooler subject to limitations on particulate matter emissions shall demonstrate initial compliance by conducting a performance test as specified in paragraphs (b)(1)(i) through (b)(1)(iii) of this section. The opacity exhibited during the period of the Method 5 of Appendix A to part 60 of this chapter performance tests required by paragraph (b)(1)(i) of this section shall be determined as required in paragraphs (b)(1)(v) through (vi) of this section.

(b)(1)(i) EPA Method 5 of appendix A to part 60 of this chapter shall be used to determine PM emissions. Each performance test shall consist of three separate runs under the conditions that exist when the affected source is operating at the highest load or capacity level reasonably expected to occur.

Each run shall be conducted for at least one hour, and the minimum sample volume shall be 0.85 dscm (30 dscf). The average of the three runs shall be used to determine compliance. A determination of the particulate matter collected in the impingers ("back half") of the Method 5 particulate sampling train is not required to demonstrate initial compliance with the PM standards of this subpart. However this shall not preclude the permitting authority from requiring a determination of the "back half" for other purposes.

(b)(1)(ii) Suitable methods shall be used to determine the kiln or inline kiln/raw mill feed rate, except for fuels, for each run.

(b)(1)(iii) The emission rate, E, of PM shall be computed for each run using equation 1:

Where:

E = emission rate of particulate matter, kg/Mg of kiln feed.

cs = concentration of PM, kg/dscm.

Qsd = volumetric flow rate of effluent gas, dscm/hr.

P = total kiln feed (dry basis), Mg/hr.

(b)(1)(iv) When there is an alkali bypass associated with a kiln or in-line kiln/raw mill, the main exhaust and alkali bypass of the kiln or in-line kiln/raw mill shall be tested simultaneously and the combined emission rate of particulate matter from the kiln or in-line kiln/raw mill and alkali bypass shall be computed for each run using equation 2,

Where:

Ec = the combined emission rate of particulate matter from the kiln or in-line kiln/raw mill and bypass stack, kg/Mg of kiln feed.

csk = concentration of particulate matter in the kiln or in-line kiln/raw mill effluent, kg/dscm.

Qsdk = volumetric flow rate of kiln or in-line kiln/raw mill effluent, dscm/hr.

csb = concentration of particulate matter in the alkali bypass gas, kg/dscm.

Qsdb = volumetric flow rate of alkali bypass gas, dscm/hr.

P = total kiln feed (dry basis), Mg/hr.

(b)(1)(v) Except as provided in paragraph (b)(1)(vi) of this section the opacity exhibited during the period of the Method 5 performance tests required by paragraph (b)(1)(i) of this section shall be determined through the use of a continuous opacity monitor (COM). The maximum six-minute average opacity during the three Method 5 test runs shall be determined during each Method 5 test run, and used to demonstrate initial compliance with the applicable opacity limits of §63.1343(b)(2), §63.1343(c)(2), or §63.1345(a)(2).

(b)(1)(vi) Each owner or operator of a kiln, in-line kiln/raw mill, or clinker cooler

subject to the provisions of this subpart using a fabric filter with multiple stacks or an electrostatic precipitator with multiple stacks may, in lieu of installing the continuous opacity monitoring system required by paragraph (b)(1)(v) of this section, conduct an opacity test in accordance with Method 9 of appendix A to part 60 of this chapter during each Method 5 performance test required by paragraph (b)(1)(i) of this section. If the control device exhausts through a monovent, or if the use of a COM in accordance with the installation specifications of Performance Specification 1 (PS-1) of appendix B to part 60 of this chapter is not feasible, a test shall be conducted in accordance with Method 9 of appendix A to part 60 of this chapter during each Method 5 performance test required by paragraph (b)(1)(i) of this section. The maximum six-minute average opacity shall be determined during the three Method 5 test runs, and used to demonstrate initial compliance with the applicable opacity limits of §63.1343(b)(2), §63.1343(c)(2), or §63.1345(a)(2).

(b)(2) The owner or operator of any affected source subject to limitations on opacity under this subpart that is not subject to paragraph (b)(1) of this section shall demonstrate initial compliance with the affected source opacity limit by conducting a test in accordance with Method 9 of appendix A to part 60 of this chapter. The performance test shall be conducted under the conditions that exist when the affected source is operating at the highest load or capacity level reasonably expected to occur. The maximum six-minute average opacity exhibited during the test period shall be used to determine whether the affected source is in initial compliance with the standard. The duration of the Method 9 performance test shall be 3-hours (30 6-minute averages), except that the duration of the Method 9 performance test may be reduced to 1-hour if the conditions of paragraphs (b)(2)(i) through (ii) of the section apply:

(b)(2)(i) There are no individual readings greater than 10 percent opacity;

(b)(2)(ii) There are no more than three readings of 10 percent for the first 1-hour period.

(b)(3) The owner or operator of an affected source subject to limitations on D/F emissions shall demonstrate initial compliance with the D/F emission limit by conducting a performance test using Method 23 of appendix A to part 60 of this chapter. The owner or operator of an in-line kiln/raw mill shall demonstrate initial compliance by conducting separate performance tests while the raw mill of the in-line kiln/raw mill is under normal operating conditions and while the raw mill of the in-line kiln/raw mill is not operating. The owner or operator of a kiln or in-line kiln/raw mill equipped with an alkali bypass shall conduct simultaneous performance tests of the kiln or in-line kiln/raw mill exhaust and the alkali bypass, however the owner or operator of an in-line kiln/raw mill is not required to conduct a performance test of the alkali bypass exhaust when the

raw mill of the in-line kiln/raw mill is not operating.

(b)(3)(i) Each performance test shall consist of three separate runs; each run shall be conducted under the conditions that exist when the affected source is operating at the highest load or capacity level reasonably expected to occur. The duration of each run shall be at least three hours and the sample volume for each run shall be at least 2.5 dscm (90 dscf). The concentration shall be determined for each run and the arithmetic average of the concentrations measured for the three runs shall be calculated and used to determine compliance.

(b)(3)(ii) The temperature at the inlet to the kiln or in-line kiln/raw mill PMCD, and where applicable, the temperature at the inlet to the alkali bypass PMCD, must be continuously recorded during the period of the Method 23 test, and the continuous temperature record(s) must be included in the performance test report.

(b)(3)(iii) One-minute average temperatures must be calculated for each minute of each run of the test.

(b)(3)(iv) The run average temperature must be calculated for each run, and the average of the run average temperatures must be determined and included in the performance test report and will determine the applicable temperature limit in accordance with §63.1344(b).

(b)(3)(v) If activated carbon injection is used for D/F control, the rate of activated carbon injection to the kiln or in-line kiln/raw mill exhaust, and where applicable, the rate of activated carbon injection to the alkali bypass exhaust, must be continuously recorded during the period of the Method 23 test, and the continuous injection rate record(s) must be included in the performance test report. In addition, the performance test report must include the brand and type of activated carbon used during the performance test and a continuous record of either the carrier gas flow rate or the carrier gas pressure drop for the duration of the test. Activated carbon injection rate parameters must be determined in accordance with paragraphs (b)(3)(vi) of this section.

(b)(3)(vi) The run average injection rate must be calculated for each run, and the average of the run average injection rates must be determined and included in the performance test report and will determine the applicable injection rate limit in accordance with §63.1344(c)(1).

(b)(4) The owner or operator of an affected source subject to limitations on emissions of THC shall demonstrate initial compliance with the THC limit by operating a continuous emission monitor in accordance with Performance Specification 8A of appendix B to part 60 of this chapter. The duration of the performance test shall be three hours, and the average THC concentration (as calculated from the one-minute averages) during the three hour performance

test shall be calculated. The owner or operator of an in-line kiln/raw mill shall demonstrate initial compliance by conducting separate performance tests while the raw mill of the in-line kiln/raw mill is under normal operating conditions and while the raw mill of the in-line kiln/raw mill is not operating.

(c) Except as provided in paragraph (e) of this section, performance tests required under paragraphs (b)(1) and (b)(2) of this section shall be repeated every five years, except that the owner or operator of a kiln, in-line kiln/raw mill or clinker cooler is not required to repeat the initial performance test of opacity for the kiln, in-line kiln/raw mill or clinker cooler.

(d) Performance tests required under paragraph (b)(3) of this section shall be repeated every 30 months.

(e) The owner or operator is required to repeat the performance tests for kilns or in-line kiln/raw mills as specified in paragraphs (b)(1) and (b)(3) of this section within 90 days of initiating any significant change in the feed or fuel from that used in the previous performance test.

(f) Table 1 of this section provides a summary of the performance test requirements of this subpart.

TABLE 1 TO §63.1349--SUMMARY OF PERFORMANCE TEST REQUIREMENTS

Affected source and pollutant	Performance test
New and existing kiln and in-line kiln/raw mill b c PM.....	EPA Method 5.a
New and existing kiln and in-line kiln/raw mill b c Opacity.....	COM if feasible d e or EPA Method 9 visual opacity readings.
New and existing kiln and in-line kiln/raw mill b c f g D/F.....	EPA Method 23h.
New greenfield kiln and in-line kiln/raw mill c THC.....	THC CEM (EPA PS-8A)i.
New and existing clinker cooler PM.....	EPA Method 5a.
New and existing clinker cooler opacity.....	COM d,j or EPA Method 9 visual opacity readings.
New and existing raw and finish mill opacity.....	EPA Method 9.a j
New and existing raw material dryer and materials handling	

processes (raw material storage,	
clinker storage, finished	
product storage, conveyor	
transfer points, bagging, and	
bulk loading and unloading	
systems) opacity.....	EPA Method 9.a j
New greenfield raw material dryer THC.....	THC CEM (EPA PS-8A).i

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- a Required initially and every 5 years thereafter.
- b Includes main exhaust and alkali bypass.
- c In-line kiln/raw mill to be tested with and without raw mill in operation.
- d Must meet COM performance specification criteria. If the fabric filter or electrostatic precipitator has multiple stacks, daily EPA Method 9 visual opacity readings may be taken instead of using a COM.
- e Opacity limit is 20 percent.
- f Alkali bypass is tested with the raw mill on.
- g Temperature and (if applicable) activated carbon injection parameters determined separately with and without the raw mill operating.
- h Required initially and every 30 months thereafter.
- i EPA Performance Specification (PS)-8A of appendix B to 40 CFR part 60.
- j Opacity limit is 10 percent.

[64 FR 31898, June 14, 1999]

40 CFR 63.1350 Monitoring Requirements.

- (a) The owner or operator of each portland cement plant shall prepare for each affected source subject to the provisions of this subpart, a written operations and maintenance plan. The plan shall be submitted to the Administrator for review and approval as part of the application for a part 70 permit and shall include the following information:
 - (a)(1) Procedures for proper operation and maintenance of the affected source and air pollution control devices in order to meet the emission limits and operating limits of §§63.1343 through 63.1348;
 - (a)(2) Corrective actions to be taken when required by paragraph (e) of this section;
 - (a)(3) Procedures to be used during an inspection of the components of the combustion system of each kiln and each in-line kiln raw mill located at the facility at least once per year; and
 - (a)(4) Procedures to be used to periodically monitor affected sources subject

to opacity standards under §§63.1346 and 63.1348. Such procedures must include the provisions of paragraphs (a)(4)(i) through (a)(4)(iv) of this section.

(a)(4)(i) The owner or operator must conduct a monthly 1-minute visible emissions test of each affected source in accordance with Method 22 of Appendix A to part 60 of this chapter. The test must be conducted while the affected source is in operation.

(a)(4)(ii) If no visible emissions are observed in six consecutive monthly tests for any affected source, the owner or operator may decrease the frequency of testing from monthly to semi-annually for that affected source. If visible emissions are observed during any semi-annual test, the owner or operator must resume testing of that affected source on a monthly basis and maintain that schedule until no visible emissions are observed in six consecutive monthly tests.

(a)(4)(iii) If no visible emissions are observed during the semi-annual test for any affected source, the owner or operator may decrease the frequency of testing from semi-annually to annually for that affected source. If visible emissions are observed during any annual test, the owner or operator must resume testing of that affected source on a monthly basis and maintain that schedule until no visible emissions are observed in six consecutive monthly tests.

(a)(4)(iv) If visible emissions are observed during any Method 22 test, the owner or operator must conduct a 6-minute test of opacity in accordance with Method 9 of appendix A to part 60 of this chapter. The Method 9 test must begin within one hour of any observation of visible emissions.

(b) Failure to comply with any provision of the operations and maintenance plan developed in accordance with paragraph (a) of this section shall be a violation of the standard.

(c) The owner or operator of a kiln or in-line kiln/raw mill shall monitor opacity at each point where emissions are vented from these affected sources including alkali bypasses in accordance with paragraphs (c)(1) through (c)(3) of this section.

(c)(1) Except as provided in paragraph (c)(2) of this section, the owner or operator shall install, calibrate, maintain, and continuously operate a continuous opacity monitor (COM) located at the outlet of the PM control device to continuously monitor the opacity. The COM shall be installed, maintained, calibrated, and operated as required by subpart A, general provisions of this part, and according to PS-1 of appendix B to part 60 of this chapter.

(c)(2) The owner or operator of a kiln or in-line kiln/raw mill subject to the provisions of this subpart using a fabric filter with multiple stacks or an

electrostatic precipitator with multiple stacks may, in lieu of installing the continuous opacity monitoring system required by paragraph (c)(1) of this section, monitor opacity in accordance with paragraphs (c)(2)(i) through (ii) of this section. If the control device exhausts through a monovent, or if the use of a COM in accordance with the installation specifications of PS-1 of appendix B to part 60 of this chapter is not feasible, the owner or operator must monitor opacity in accordance with paragraphs (c)(2)(i) through (ii) of this section.

(c)(2)(i) Perform daily visual opacity observations of each stack in accordance with the procedures of Method 9 of appendix A of part 60 of this chapter. The Method 9 test shall be conducted while the affected source is operating at the highest load or capacity level reasonably expected to occur within the day. The duration of the Method 9 test shall be at least 30 minutes each day.

(c)(2)(ii) Use the Method 9 procedures to monitor and record the average opacity for each six-minute period during the test.

(c)(3) To remain in compliance, the opacity must be maintained such that the 6-minute average opacity for any 6-minute block period does not exceed 20 percent. If the average opacity for any 6-minute block period exceeds 20 percent, this shall constitute a violation of the standard.

(d) The owner or operator of a clinker cooler shall monitor opacity at each point where emissions are vented from the clinker cooler in accordance with paragraphs (d)(1) through (d)(3) of this section.

(d)(1) Except as provided in paragraph (d)(2) of this section, the owner or operator shall install, calibrate, maintain, and continuously operate a COM located at the outlet of the clinker cooler PM control device to continuously monitor the opacity. The COM shall be installed, maintained, calibrated, and operated as required by subpart A, general provisions of this part, and according to PS-1 of appendix B to part 60 of this chapter.

(d)(2) The owner or operator of a clinker cooler subject to the provisions of this subpart using a fabric filter with multiple stacks or an electrostatic precipitator with multiple stacks may, in lieu of installing the continuous opacity monitoring system required by paragraph (d)(1) of this section, monitor opacity in accordance with paragraphs (d)(2)(i) through (ii) of this section. If the control device exhausts through a monovent, or if the use of a COM in accordance with the installation specifications of PS-1 of appendix B to part 60 of this chapter is not feasible, the owner or operator must monitor opacity in accordance with paragraphs (d)(2)(i) through (ii) of this section.

(d)(2)(i) Perform daily visual opacity observations of each stack in accordance with the procedures of Method 9 of appendix A of part 60 of this chapter. The Method 9 test shall be conducted while the affected source is operating at the highest load or capacity level reasonably expected to occur within the day. The

duration of the Method 9 test shall be at least 30 minutes each day.

(d)(2)(ii) Use the Method 9 procedures to monitor and record the average opacity for each six-minute period during the test.

(d)(3) To remain in compliance, the opacity must be maintained such that the 6-minute average opacity for any 6-minute block period does not exceed 10 percent. If the average opacity for any 6-minute block period exceeds 10 percent, this shall constitute a violation of the standard.

(e) The owner or operator of a raw mill or finish mill shall monitor opacity by conducting daily visual emissions observations of the mill sweep and air separator PMCDs of these affected sources, in accordance with the procedures of Method 22 of appendix A of part 60 of this chapter. The Method 22 test shall be conducted while the affected source is operating at the highest load or capacity level reasonably expected to occur within the day. The duration of the Method 22 test shall be six minutes. If visible emissions are observed during any Method 22 visible emissions test, the owner or operator must:

(e)(1) Initiate, within one-hour, the corrective actions specified in the site specific operating and maintenance plan developed in accordance with paragraphs (a)(1) and (a)(2) of this section; and

(e)(2) Within 24 hours of the end of the Method 22 test in which visible emissions were observed, conduct a visual opacity test of each stack from which visible emissions were observed in accordance with Method 9 of appendix A of part 60 of this chapter. The duration of the Method 9 test shall be thirty minutes.

(f) The owner or operator of an affected source subject to a limitation on D/F emissions shall monitor D/F emissions in accordance with paragraphs (f)(1) through (f)(6) of this section.

(f)(1) The owner or operator shall install, calibrate, maintain, and continuously operate a continuous monitor to record the temperature of the exhaust gases from the kiln, in-line kiln/raw mill and alkali bypass, if applicable, at the inlet to, or upstream of, the kiln, in-line kiln/raw mill and/or alkali bypass PM control devices.

(f)(1)(i) The recorder response range must include zero and 1.5 times either of the average temperatures established according to the requirements in §63.1349(b)(3)(iv).

(f)(1)(ii) The reference method must be a National Institute of Standards and Technology calibrated reference thermocouple-potentiometer system or alternate reference, subject to approval by the Administrator.

(f)(2) The owner or operator shall monitor and continuously record the temperature of the exhaust gases from the kiln, in-line kiln/raw mill and alkali

bypass, if applicable, at the inlet to the kiln, in-line kiln/raw mill and/or alkali bypass PMCD.

(f)(3) The three-hour rolling average temperature shall be calculated as the average of 180 successive one-minute average temperatures.

(f)(4) Periods of time when one-minute averages are not available shall be ignored when calculating three-hour rolling averages. When one-minute averages become available, the first one-minute average is added to the previous 179 values to calculate the three-hour rolling average.

(f)(5) When the operating status of the raw mill of the in-line kiln/ raw mill is changed from off to on, or from on to off the calculation of the three-hour rolling average temperature must begin anew, without considering previous recordings.

(f)(6) The calibration of all thermocouples and other temperature sensors shall be verified at least once every three months.

(g) The owner or operator of an affected source subject to a limitation on D/F emissions that employs carbon injection as an emission control technique shall comply with the monitoring requirements of paragraphs (f)(1) through (f)(6) and (g)(1) through (g)(6) of this section to demonstrate continuous compliance with the D/F emission standard.

(g)(1) Install, operate, calibrate and maintain a continuous monitor to record the rate of activated carbon injection. The accuracy of the rate measurement device must be ± 1 percent of the rate being measured.

(g)(2) Verify the calibration of the device at least once every three months.

(g)(3) The three-hour rolling average activated carbon injection rate shall be calculated as the average of 180 successive one-minute average activated carbon injection rates.

(g)(4) Periods of time when one-minute averages are not available shall be ignored when calculating three-hour rolling averages. When one-minute averages become available, the first one-minute average is added to the previous 179 values to calculate the three-hour rolling average.

(g)(5) When the operating status of the raw mill of the in-line kiln/ raw mill is changed from off to on, or from on to off the calculation of the three-hour rolling average activated carbon injection rate must begin anew, without considering previous recordings.

(g)(6) The owner or operator must install, operate, calibrate and maintain a continuous monitor to record the activated carbon injection system carrier gas parameter (either the carrier gas flow rate or the carrier gas pressure drop) established during the D/F performance test in accordance with paragraphs

(g)(6)(i) through (g)(6)(iii) of this section.

(g)(6)(i) The owner or operator shall install, calibrate, operate and maintain a

device to continuously monitor and record the parameter value.

(g)(6)(ii) The owner or operator must calculate and record three-hour rolling averages of the parameter value.

(g)(6)(iii) Periods of time when one-minute averages are not available shall be ignored when calculating three-hour rolling averages. When one-minute averages become available, the first one-minute average shall be added to the previous 179 values to calculate the three-hour rolling average.

(h) The owner or operator of an affected source subject to a limitation on THC emissions under this subpart shall comply with the monitoring requirements of paragraphs (h)(1) through (h)(3) of this section to demonstrate continuous compliance with the THC emission standard:

(h)(1) The owner or operator shall install, operate and maintain a THC continuous emission monitoring system in accordance with Performance Specification 8A, of appendix B to part 60 of this chapter and comply with all of the requirements for continuous monitoring systems found in the general provisions, subpart A of this part.

(h)(2) The owner or operator is not required to calculate hourly rolling averages in accordance with section 4.9 of Performance Specification 8A.

(h)(3) Any thirty-day block average THC concentration in any gas discharged from a greenfield raw material dryer, the main exhaust of a greenfield kiln, or the main exhaust of a greenfield in-line kiln/raw mill, exceeding 50 ppmvd, reported as propane, corrected to seven percent oxygen, is a violation of the standard.

(i) The owner or operator of any kiln or in-line kiln/raw mill subject to a D/F emission limit under this subpart shall conduct an inspection of the components of the combustion system of each kiln or in-line kiln raw mill at least once per year.

(j) The owner or operator of an affected source subject to a limitation on opacity under §63.1346 or §63.1348 shall monitor opacity in accordance with the operation and maintenance plan developed in accordance with paragraph (a) of this section.

(k) The owner or operator of an affected source subject to a particulate matter standard under §63.1343 shall install, calibrate, maintain and operate a particulate matter continuous emission monitoring system (PM CEMS) to measure the particulate matter discharged to the atmosphere. The compliance deadline for installing the PM CEMS and all requirements relating to performance of the PM CEMS and implementation of the PM CEMS requirement is deferred pending further rulemaking.

(l) An owner or operator may submit an application to the Administrator for approval of alternate monitoring requirements to demonstrate compliance with

the emission standards of this subpart, except for emission standards for THC, subject to the provisions of paragraphs (l)(1) through (l)(6) of this section.

(l)(1) The Administrator will not approve averaging periods other than those specified in this section, unless the owner or operator documents, using data or information, that the longer averaging period will ensure that emissions do not exceed levels achieved during the performance test over any increment of time equivalent to the time required to conduct three runs of the performance test.

(l)(2) If the application to use an alternate monitoring requirement is approved, the owner or operator must continue to use the original monitoring requirement until approval is received to use another monitoring requirement.

(l)(3) The owner or operator shall submit the application for approval of alternate monitoring requirements no later than the notification of performance test. The application must contain the information specified in paragraphs (l)(3)(i) through (l)(3)(iii) of this section:

(l)(3)(i) through (l)(3)(iii) of this section:

(l)(3)(i) Data or information justifying the request, such as the technical or economic infeasibility, or the impracticality of using the required approach;

(l)(3)(ii) A description of the proposed alternative monitoring requirement, including the operating parameter to be monitored, the monitoring approach and technique, the averaging period for the limit, and how the limit is to be calculated; and

(l)(3)(iii) Data or information documenting that the alternative monitoring requirement would provide equivalent or better assurance of compliance with the relevant emission standard.

(l)(4) The Administrator will notify the owner or operator of the approval or denial of the application within 90 calendar days after receipt of the original request, or within 60 calendar days of the receipt of any supplementary information, whichever is later. The Administrator will not approve an alternate monitoring application unless it would provide equivalent or better assurance of compliance with the relevant emission standard. Before disapproving any alternate monitoring application, the Administrator will provide:

(l)(4)(i) Notice of the information and findings upon which the intended disapproval is based; and

(l)(4)(ii) Notice of opportunity for the owner or operator to present additional supporting information before final action is taken on the application. This notice will specify how much additional time is allowed for the owner or operator to provide additional supporting information.

(l)(5) The owner or operator is responsible for submitting any supporting information in a timely manner to enable the Administrator to consider the application prior to the performance test. Neither submittal of an application,

nor the Administrator's failure to approve or disapprove the application relieves the owner or operator of the responsibility to comply with any provision of this subpart.

(l)(6) The Administrator may decide at any time, on a case-by-case basis that additional or alternative operating limits, or alternative approaches to establishing operating limits, are necessary to demonstrate compliance with the emission standards of this subpart.

(m) A summary of the monitoring requirements of this subpart is given in Table 1 to this section.

TABLE 1 TO §63.1350--MONITORING REQUIREMENTS

-----+-----+-----		
Affected source/pollutant or opacity	Monitor type/ operation/process	Monitoring requirements
-----+-----+-----		
All affected sources.....	Operations and maintenance plan.	Prepare written plan for all affected sources and control devices.
All kilns and in-line kiln raw mills at major sources (including alkali bypass)/ opacity.	Continuous opacity monitor, if applicable.	Install, calibrate, maintain and operate in accordance with general provisions and with PS-1.
	Method 9 opacity test, if applicable	Daily test of at least 30-minutes, while kiln is at highest load or capacity level.
Kilns and in-line kiln raw mills at major sources (including alkali bypass)/ particulate matter.	Particulate matter continuous emission monitoring system.	Deferred.
Kilns and in-line kiln raw mills at major and area sources (including alkali bypass)/ D/F.	Combustion system inspection.	Conduct annual inspection of components of combustion system.
	Continuous temperature monitoring at PMCD	Install, operate, calibrate and maintain continuous

	inlet.	temperature monitoring and recording system; calculate three-hour rolling averages; verify temperature sensor calibration at least quarterly.
Kilns and in-line kiln raw mills at major and area sources (including alkali bypass)/ D/F (continued).	Activated carbon injection rate monitor, if applicable.	Install, operate, calibrate and maintain continuous activated carbon injection rate monitor; calculate three-hour rolling averages; verify calibration at least quarterly; install, operate, calibrate and maintain carrier gas flow rate monitor or carrier gas pressure drop monitor; calculate three-hour rolling averages; document carbon specifications.
New greenfield kilns and in-line kiln raw mills at major and area sources/THC.	Total hydrocarbon continuous emission monitor.	Install, operate, and maintain THC CEM in accordance with PS-8A; calculate 30-day block average THC concentration.
Clinker coolers at major sources/opacity.	Continuous opacity monitor, if applicable.	Install, calibrate, maintain and operate in

		accordance with general provisions and with PS-1.
	Method 9 opacity test, if applicable	Daily test of at least 30-minutes, while kiln is at highest load or capacity level.
Raw mills and finish mills at major sources/opacity.	Method 22 visible emissions test.	Conduct daily 6-minute Method 22 visible emissions test while mill is operating at highest load or capacity level; if visible emissions are observed, initiate corrective action within one hour and conduct 30-minute Method 9 test within 24 hours.
New greenfield raw material dryers at major and area sources/THC.	Total hydrocarbon continuous emission monitor.	Install, operate, and maintain THC CEM in accordance with PS-8A; calculate 30-day block average THC concentration.
Raw material dryers; raw material, clinker, finished product storage bins; conveying system transfer points; bagging systems; and bulk loading and unloading systems at major sources/opacity.	Method 22 visible emissions test.	As specified in operation and maintenance plan.

[64 FR 31898, June 14, 1999]

40 CFR 63.1351 Compliance Dates.

- (a) The compliance date for an owner or operator of an existing affected source subject to the provisions of this subpart is June 10, 2002.
- (b) The compliance date for an owner or operator of an affected source subject to the provisions of this subpart that commences new construction or reconstruction after March 24, 1998 is June 9, 1999 or immediately upon startup of operations, whichever is later.

[64 FR 31898, June 14, 1999]

40 CFR 63.1352 Additional Test Methods.

- (a) Owners or operators conducting tests to determine the rates of emission of hydrogen chloride (HCl) from kilns, in-line kiln/raw mills and associated bypass stacks at portland cement manufacturing facilities, for use in applicability determinations under §63.1340 are permitted to use Method 320 or Method 321 of appendix A of this part.
- (b) Owners or operators conducting tests to determine the rates of emission of hydrogen chloride (HCl) from kilns, in-line kiln/raw mills and associated bypass stacks at portland cement manufacturing facilities, for use in applicability determinations under §63.1340 are permitted to use Methods 26 or 26A of appendix A to part 60 of this chapter, except that the results of these tests shall not be used to establish status as an area source.
- (c) Owners or operators conducting tests to determine the rates of emission of specific organic HAP from raw material dryers, kilns and in-line kiln/raw mills at portland cement manufacturing facilities, for use in applicability determinations under §63.1340 of this subpart are permitted to use Method 320 of appendix A to this part, or Method 18 of appendix A to part 60 of this chapter.

[64 FR 31898, June 14, 1999]

40 CFR 63.1353 Notification Requirements.

- (a) The notification provisions of 40 CFR part 63, subpart A that apply and those that do not apply to owners and operators of affected sources subject to this subpart are listed in Table 1 of this subpart. If any State requires a notice that contains all of the information required in a notification listed in this

section, the owner or operator may send the Administrator a copy of the notice sent to the State to satisfy the requirements of this section for that notification.

(b) Each owner or operator subject to the requirements of this subpart shall comply with the notification requirements in §63.9 as follows:

(b)(1) Initial notifications as required by §63.9(b) through (d). For the purposes of this subpart, a Title V or 40 CFR part 70 permit application may be used in lieu of the initial notification required under §63.9(b), provided the same information is contained in the permit application as required by §63.9(b), and the State to which the permit application has been submitted has an approved operating permit program under part 70 of this chapter and has received delegation of authority from the EPA. Permit applications shall be submitted by the same due dates as those specified for the initial notification.

(b)(2) Notification of performance tests, as required by §§63.7 and 63.9(e).

(b)(3) Notification of opacity and visible emission observations required by §63.1349 in accordance with §§63.6(h)(5) and 63.9(f).

(b)(4) Notification, as required by §63.9(g), of the date that the continuous emission monitor performance evaluation required by §63.8(e) is scheduled to begin.

(b)(5) Notification of compliance status, as required by §63.9(h).

[64 FR 31898, June 14, 1999]

40 CFR 63.1354 Reporting Requirements.

(a) The reporting provisions of subpart A of this part that apply and those that do not apply to owners or operators of affected sources subject to this subpart are listed in Table 1 of this subpart. If any State requires a report that contains all of the information required in a report listed in this section, the owner or operator may send the Administrator a copy of the report sent to the State to satisfy the requirements of this section for that report.

(b) The owner or operator of an affected source shall comply with the reporting requirements specified in §63.10 of the general provisions of this part 63, subpart A as follows:

(b)(1) As required by §63.10(d)(2), the owner or operator shall report the results of performance tests as part of the notification of compliance status.

(b)(2) As required by §63.10(d)(3), the owner or operator of an affected source shall report the opacity results from tests required by §63.1349.

(b)(3) As required by §63.10(d)(4), the owner or operator of an affected source who is required to submit progress reports as a condition of receiving an extension of compliance under §63.6(i) shall submit such reports by the dates

specified in the written extension of compliance.

(b)(4) As required by §63.10(d)(5), if actions taken by an owner or operator during a startup, shutdown, or malfunction of an affected source (including actions taken to correct a malfunction) are consistent with the procedures specified in the source's startup, shutdown, and malfunction plan specified in §63.6(e)(3), the owner or operator shall state such information in a semiannual report. Reports shall only be required if a startup, shutdown, or malfunction occurred during the reporting period. The startup, shutdown, and malfunction report may be submitted simultaneously with the excess emissions and continuous monitoring system performance reports; and

(b)(5) Any time an action taken by an owner or operator during a startup, shutdown, or malfunction (including actions taken to correct a malfunction) is not consistent with the procedures in the startup, shutdown, and malfunction plan, the owner or operator shall make an immediate report of the actions taken for that event within 2 working days, by telephone call or facsimile (FAX) transmission. The immediate report shall be followed by a letter, certified by the owner or operator or other responsible official, explaining the circumstances of the event, the reasons for not following the startup, shutdown, and malfunction plan, and whether any excess emissions and/or parameter monitoring exceedances are believed to have occurred.

(b)(6) As required by §63.10(e)(2), the owner or operator shall submit a written report of the results of the performance evaluation for the continuous monitoring system required by §63.8(e). The owner or operator shall submit the report simultaneously with the results of the performance test.

(b)(7) As required by §63.10(e)(2), the owner or operator of an affected source using a continuous opacity monitoring system to determine opacity compliance during any performance test required under §63.7 and described in §63.6(d)(6) shall report the results of the continuous opacity monitoring system performance evaluation conducted under §63.8(e).

(b)(8) As required by §63.10(e)(3), the owner or operator of an affected source equipped with a continuous emission monitor shall submit an excess emissions and continuous monitoring system performance report for any event when the continuous monitoring system data indicate the source is not in compliance with the applicable emission limitation or operating parameter limit.

(b)(9) The owner or operator shall submit a summary report semiannually which contains the information specified in §63.10(e)(3)(vi). In addition, the summary report shall include:

(b)(9)(i) All exceedences of maximum control device inlet gas temperature limits specified in §63.1344(a) and (b);

- (b)(9)(ii) All failures to calibrate thermocouples and other temperature sensors as required under §63.1350(f)(7) of this subpart; and
- (b)(9)(iii) All failures to maintain the activated carbon injection rate, and the activated carbon injection carrier gas flow rate or pressure drop, as applicable, as required under §63.1344(c).
- (b)(9)(iv) The results of any combustion system component inspections conducted within the reporting period as required under §63.1350(i).
- (b)(9)(v) All failures to comply with any provision of the operation and maintenance plan developed in accordance with §63.1350(a).
- (b)(10) If the total continuous monitoring system downtime for any CEM or any continuous monitoring system (CMS) for the reporting period is ten percent or greater of the total operating time for the reporting period, the owner or operator shall submit an excess emissions and continuous monitoring system performance report along with the summary report.

[64 FR 31898, June 14, 1999]

40 CFR 63.1355 Recordkeeping Requirements.

- (a) The owner or operator shall maintain files of all information (including all reports and notifications) required by this section recorded in a form suitable and readily available for inspection and review as required by §63.10(b)(1). The files shall be retained for at least five years following the date of each occurrence, measurement, maintenance, corrective action, report, or record. At a minimum, the most recent two years of data shall be retained on site. The remaining three years of data may be retained off site. The files may be maintained on microfilm, on a computer, on floppy disks, on magnetic tape, or on microfiche.
- (b) The owner or operator shall maintain records for each affected source as required by §63.10(b)(2) and (b)(3) of this part; and
- (b)(1) All documentation supporting initial notifications and notifications of compliance status under §63.9;
- (b)(2) All records of applicability determination, including supporting analyses; and
- (b)(3) If the owner or operator has been granted a waiver under §63.8(f)(6), any information demonstrating whether a source is meeting the requirements for a waiver of recordkeeping or reporting requirements.
- (c) In addition to the recordkeeping requirements in paragraph (b) of this section, the owner or operator of an affected source equipped with a continuous monitoring system shall maintain all records required by §63.10(c).

[64 FR 31898, June 14, 1999]

40 CFR 63.1356 Exemption From New Source Performance Standards.

(a) Except as provided in paragraphs (a)(1) and (a)(2) of this section, any affected source subject to the provisions of this subpart is exempted from any otherwise applicable new source performance standard contained in 40 CFR part 60, subpart F.

(a)(1) Kilns and in-line kiln/raw mills, as applicable under 40 CFR 60.60(b), located at area sources are subject to PM and opacity limits and associated reporting and recordkeeping, under 40 CFR part 60, subpart F.

(a)(2) Greenfield raw material dryers, as applicable under 40 CFR 60.60(b), located at area sources are subject to opacity limits and associated reporting and recordkeeping under 40 CFR part 60, subpart F.

[64 FR 31898, June 14, 1999]

40 CFR 63.1357 Temporary, Conditioned Exemption From Particulate Matter And Opacity Standards.

(a) Subject to the limitations of paragraphs (b) through (f) of this section, an owner or operator conducting PM CEMS correlation tests (that is, correlation with manual stack methods) is exempt from:

(a)(1) Any particulate matter and opacity standards of part 60 or part 63 of this chapter that are applicable to cement kilns and in-line kiln/raw mills.

(a)(2) Any permit or other emissions or operating parameter or other limitation on workplace practices that are applicable to cement kilns and in-line kiln raw mills to ensure compliance with any particulate matter and opacity standards of this part or part 60 of this chapter.

(b) The owner or operator must develop a PM CEMS correlation test plan. The plan must be submitted to the Administrator for approval at least 90 days before the correlation test is scheduled to be conducted. The plan must include:

(b)(1) The number of test conditions and the number of runs for each test condition;

(b)(2) The target particulate matter emission level for each test condition;

(b)(3) How the operation of the affected source will be modified to attain the desired particulate matter emission rate; and

- (b)(4) The anticipated normal particulate matter emission level.
- (c) The Administrator will review and approve or disapprove the correlation test plan in accordance with §63.7(c)(3)(i) and (iii). If the Administrator fails to approve or disapprove the correlation test plan within the time period specified in §63.7(c)(3)(iii), the plan shall be considered approved, unless the Administrator has requested additional information.
- (d) The stack sampling team must be on-site and prepared to perform correlation testing no later than 24 hours after operations are modified to attain the desired particulate matter emissions concentrations, unless the correlation test plan documents that a longer period is appropriate.
- (e) The particulate matter and opacity standards and associated operating limits and conditions will not be waived for more than 96 hours, in the aggregate, for a correlation test, including all runs and conditions.
- (f) The owner or operator must return the affected source to operating conditions indicative of compliance with the applicable particulate matter and opacity standards as soon as possible after correlation testing is completed.

[64 FR 31898, June 14, 1999]

40 CFR 63.1358 Delegation Of Authority.

- (a) In delegating implementation and enforcement authority to a State under subpart E of this part, the authorities contained in paragraph (b) of this section shall be retained by the Administrator and not transferred to a State.
- (b) Authority which will not be delegated to States:
 - (b)(1) Approval of alternative non-opacity emission standards under §63.6(g).
 - (b)(2) Approval of alternative opacity standards under §63.6(h)(9).
 - (b)(3) Approval of major changes to test methods under §§63.7(e)(2)(ii) and 63.7(f). A major change to a test method is a modification to a federally enforceable test method that uses unproven technology or procedures or is an entirely new method (sometimes necessary when the required test method is unsuitable).
 - (b)(4) Approval of major changes to monitoring under §63.8(f). A major change to monitoring is a modification to federally enforceable monitoring that uses unproven technology or procedures, is an entirely new method (sometimes necessary when the required monitoring is unsuitable), or is a change in the averaging period.
 - (b)(5) Waiver of recordkeeping under §63.10(f).

[64 FR 31898, June 14, 1999]

**40 CFR Table 1 To Subpart LLL Of Part 63--Applicability Of
General Provisions**

TABLE 1 TO SUBPART LLL--APPLICABILITY OF GENERAL PROVISIONS

-----+-----+-----+-----			
General Provisions	40 CFR Citation	Requirement	Applies to
		Subpart LLL	Comment
-----+-----+-----+-----			

63.1(a)(1) through (4).....	Applicability.....	Yes.	
63.1(a)(5).....		No.....	[Reserved].
63.1(a)(6) through (a)(8).....	Applicability.....	Yes.	
63.1(a)(9).....		No.....	[Reserved].
63.1(a)(10) through (14).....	Applicability.....	Yes.	
63.1(b)(1).....	Initial Applicability	No.....	§63.1340
specifies			
	Determination.		applicability.
63.1(b)(2) and (3).....	Initial Applicability	Yes.	
	Determination.		
63.1(c)(1).....	Applicability After	Yes.	
	Standard Established.		
63.1(c)(2).....	Permit Requirements....	Yes.....	Area sources must
			obtain Title V
permits.			
63.1(c)(3).....		No.....	[Reserved].
63.1(c)(4) and (5).....	Extensions,	Yes.	
	Notifications.		
63.1(d).....		No.....	[Reserved].
63.1(e).....	Applicability of Permit	Yes.	
	Program.		
63.2.....	Definitions.....	Yes.	Additional
definitions			
			in §63.1341.

63.3(a) through (c).....	Units and Abbreviations	Yes.	
63.4(a)(1) through (a)(3).....	Prohibited Activities..	Yes.	
63.4(a)(4).....		No.....	[Reserved].
63.4(a)(5).....	Compliance date.....	Yes.	
63.4(b) and (c).....	Circumvention,	Yes.	
	Severability.		
63.5(a)(1) and (2).....	Construction/	Yes.	
	Reconstruction.		
63.5(b)(1).....	Compliance Dates.....	Yes.	
63.5(b)(2).....		No.....	[Reserved].
63.5(b)(3) through (6).....	Construction Approval,	Yes.	
	Applicability.		
63.5(c).....		No.....	[Reserved].
63.5(d)(1) through (4).....	Approval of	Yes.	
	Construction/		
	Reconstruction.		
63.5(e).....	Approval of	Yes.	
	Construction/		
	Reconstruction.		
63.5(f)(1) and (2).....	Approval of	Yes.	
	Construction/		
	Reconstruction.		
63.6(a).....	Compliance for	Yes.	
	Standards and		
	Maintenance.		
63.6(b)(1) through (5).....	Compliance Dates.....	Yes.	
63.6(b)(6).....		No.....	[Reserved].
63.6(b)(7).....	Compliance Dates.....	Yes.	
63.6(c)(1) and (2).....	Compliance Dates.....	Yes.	
63.6(c)(3) and (c)(4).....	No.....	[Reserved].
63.6(c)(5).....	Compliance Dates.....	Yes.	
63.6(d).....		No.....	[Reserved].
63.6(e)(1) and (e)(2).....	Operation & Maintenance	Yes.	
63.6(e)(3).....	Startup, Shutdown	Yes.	
	Malfunction Plan.		
63.6(f)(1) through (3).....	Compliance with	Yes.	
	Emission Standards.		
63.6(g)(1) through (g)(3).....	Alternative Standard...	Yes.	
63.6(h)(1) and (2).....	Opacity/VE Standards...	Yes.	
63.6(h)(3).....		No.....	Reserved

63.6(h)(4) and (h)(5)(i).....| Opacity/VE Standards...| Yes. |
63.6(h)(5)(ii) through (iv).....| Opacity/VE Standards...| No.....| Test duration

specified

| | | in Subpart LLL.
63.6(h)(6).....| Opacity/VE Standards...| Yes. |
63.6(i)(1) through (i)(14).....| Extension of Compliance| Yes. |
63.6(i)(15).....| | No.....| [Reserved].
63.6(i)(16).....| Extension of Compliance| Yes. |
63.6(j).....| Exemption from | Yes. |
| Compliance. | |
63.7(a)(1) through (a)(3).....| Performance Testing | Yes.....| §63.1349 has
| Requirements. | | specific

requirements.

63.7(b).....| Notification.....| Yes. |
63.7(c).....| Quality Assurance/Test | Yes. |
| Plan. | |
63.7(d).....| Testing Facilities.....| Yes. |
63.7(e)(1) through (4).....| Conduct of Tests.....| Yes. |
63.7(f).....| Alternative Test Method| Yes. |
63.7(g).....| Data Analysis.....| Yes. |
63.7(h).....| Waiver of Tests.....| Yes. |
63.8(a)(1).....| Monitoring Requirements| Yes. |
63.8(a)(2).....| Monitoring.....| No.....| §63.1350 includes
| | | CEM

requirements.

63.8(a)(3).....| | No.....| [Reserved].
63.8(a)(4).....| Monitoring.....| No.....| Flares not

applicable.

63.8(b)(1) through (3).....| Conduct of Monitoring..| Yes. |
63.8(c)(1) through (8).....| CMS Operation/ | Yes. | Performance
| Maintenance. | | specification
| | | supersedes
| | | requirements for

THC

| | | CEM. Temperature

and

		activated carbon
		injection

monitoring

		data reduction
		requirements

given in

		subpart LLL.
63.8(d).....	Quality Control.....	Yes.
63.8(e).....	Performance Evaluation	Yes.....
	for CMS.	specification
		supersedes
		requirements for

THC

		CEM.
63.8(f)(1) through (f)(5).....	Alternative Monitoring	Yes.....
		Additional
		requirements

	Method.		in §1350(l).
63.8(f)(6).....	Alternative to RATA	Yes.	
	Test.		
63.8(g).....	Data Reduction.....	Yes.	
63.9(a).....	Notification	Yes.	
	Requirements.		
63.9(b)(1) through (5).....	Initial Notifications..	Yes.	
63.9(c).....	Request for Compliance	Yes.	
	Extension.		
63.9(d).....	New Source Notification	Yes.	
	for Special Compliance		
	Requirements.		
63.9(e).....	Notification of	Yes.	
	Performance Test.		
63.9(f).....	Notification of VE/	Yes	Notification not
	Opacity Test.		required for VE/
			opacity test

under

			§63.1350(e) and
			(j).
63.9(g).....	Additional CMS	Yes.	
	Notifications.		
63.9(h)(1) through (h)(3).....	Notification of	Yes.	
	Compliance Status.		
63.9(h)(4).....	No.....		[Reserved].
63.9(h)(5) and (h)(6).....	Notification of	Yes.	
	Compliance Status.		
63.9(i).....	Adjustment of Deadlines	Yes.	
63.9(j).....	Change in Previous	Yes.	
	Information.		
63.10(a).....	Recordkeeping/Reporting	Yes	Yes.
63.10(b).....	General Requirements...	Yes.	
63.10(c)(1).....	Additional CMS	Yes.....	PS-8A applies.
	Recordkeeping.		
63.10(c)(2) through (c)(4).....	No.....		Reserved]
63.10(c)(5) through (c)(8).....	Additional CMS	Yes.....	PS-8A applies

instead

Recordkeeping.	of requirements
----------------	-----------------

for

		THC CEM.
63.10(c)(9).....	No.....	[Reserved]
63.10(c)(10) through (15).....	Additional CMS	Yes..... PS-8A applies

instead

Recordkeeping.	of requirements
----------------	-----------------

for

		THC CEM.
63.10(d)(1).....	General Reporting	Yes.
	Requirements.	
63.10(d)(2).....	Performance Test	Yes.
	Results.	
63.10(d)(3).....	Opacity or VE	Yes.
	Observations.	
63.10(d)(4).....	Progress Reports.....	Yes.

63.10(d)(5).....| Startup, Shutdown, | Yes. |
| Malfunction Reports. | |
63.10(e)(1) and (e)(2).....| Additional CMS Reports.| Yes. |
63.10(e)(3).....| Excess Emissions and | Yes.....| Exceedences are

defined

| CMS Performance | | in subpart LLL.
| Reports. | |
63.10(f).....| Waiver for | Yes. |
| Recordkeeping/ | |
| Reporting. | |
63.11(a) and (b).....| Control Device | No.....| Flares not

applicable.

| Requirements. | |
63.12(a)-(c).....| State Authority and | Yes. |
| Delegations. | |
63.13(a)-(c).....| State/Regional | Yes. |
| Addresses. | |
63.14(a) and (b).....| Incorporation by | Yes. |
| Reference. | |
63.15(a) and (b).....| Availability of | Yes. |
| Information. | |

-----+-----+-----+-----

[64 FR 31898, June 14, 1999]

92. GASOLINE DISPENSING FACILITIES:

C-1. CONDITIONS APPLICABLE TO GASOLINE DISPENSING FACILITY (non-retail); MDAQMD PERMIT NUMBER N001452 & N002209; consisting of:

N001452	PTO	Gasoline Service Station - Non-Retail	GASOLINE DISPENSING FACILITY (NON RETAIL)
N002209	PTO	Gasoline Service Station - Non-Retail	GASOLINE DISPENSING FACILITY (NON RETAIL)

- a. Tanks - Number of Tanks: 3
- | | Tank Number: | 1a | 1b | 2 |
|----|------------------|--------------|-------|--------|
| 1. | Material Stored: | (87)Unleaded | MO | Diesel |
| 2. | Volume Gallons: | 6,000 | 6,000 | 20,000 |
| 3. | Aboveground(A): | U | U | U |
- b. Dispensing Equipment:
1. Gasoline Dispensing Nozzles (Number): 1
 2. Diesel Dispensing Nozzles (Number): 2
 3. Phase II Vapor Recovery System (Type): Balance [gasoline only]

PERMIT CONDITIONS; (UNLESS OTHERWISE STATED ALL CONDITIONS RESULT FROM RULE 204 - PERMIT CONDITIONS; VERSION IN SIP = CARB EX. ORDER G-73, 40 CFR 52.220(C)(39)(II)(B) - 11/09/78 43 FR 52237; CURRENT RULE VERSION = 07/25/77:

1. The toll-free telephone number that must be posted is 1-800-635-4617.
2. The owner/operator shall maintain a log of all inspections, repairs, and maintenance on equipment subject to Rule 461. Such logs or records shall be maintained at the facility for at least five (5) years and shall be available to the District upon request.
3. Any modifications or changes to the piping or control fittings of the vapor recovery system requires prior approval from the District.

C-2. CONDITIONS APPLICABLE TO ALL GASOLINE DISPENSING FACILITIES:

1. Owner/Operator shall not sale or supply for use within the District as a fuel for motor vehicles as defined by the Vehicle Code of the State of California, gasoline having a degree of unsaturation greater than that indicated by a Bromine Number of 30 as determined by ASTM Method D1159-66. [Rule 432 - Gasoline Specifications; Version in SIP = Current, 40 CFR 52.220(c)(39)(ii)(B) - 09/08/78 - 43 FR 40011]

2. Owner/Operator shall not transfer, permit the transfer or provide equipment for the transfer of gasoline into or from any tank truck, trailer, or railroad tank car into the gasoline storage tank unless the transfer is made to tank equipped as required in Rule 463 or unless all of the following conditions are met:
- (a) Tank is equipped with a permanent submerged fill pipe, and
 - (b) Such delivery vessel or tank is equipped with a vapor recovery system which has been certified by the California Air Resources Board, and the facility's vapor recovery system shall be capable of recovering or processing 95% of the displaced gasoline vapors, and
 - (c) All vapor return lines are connected between the tank truck, trailer, or railroad tank car and the gasoline tank, and the vapor recovery system is in operation in accordance with the manufacturer's specifications, and the delivery vehicle, including all hoses, fittings, and couplings, is maintained in a vapor-tight condition, as defined by the applicable California Air Resources Board certification and test procedures (Part II, Section B, of Title V Permit), and all equipment is operated and maintained according to the manufacturer's specifications.
 - (d) Hatch openings are limited to no more than 3 minutes in duration for visual inspection, provided that pumping has been stopped for at least 3 minutes prior to opening, and the hatch is closed fully before pumping is resumed.
 - (e) All lines are gravity drained, in such a manner that upon disconnect no liquid spillage would be expected; and
 - (f) Equipment subject to this condition shall be operated and maintained, with no defects, as follows:
 - (i) All fill tubes are equipped with vapor-tight covers, including gaskets; and
 - (ii) All dry breaks have vapor-tight seals and are equipped with vapor-tight covers or dust covers; and
 - (iii) Coaxial fill tubes are operated so there is no obstruction of vapor passage from the storage tank back to the delivery vehicle; and
 - (iv) The fill tube assembly, including fill tube, fittings and gaskets, is maintained to prevent vapor leakage from any portion of the vapor recovery system; and
 - (v) All storage tank vapor return pipes without dry breaks are equipped with vapor-tight covers, including gaskets.
- [Rule 461 - *Gasoline Transfer and Dispensing*; Version in SIP = Current, 40 CFR 52.220(c)(198)(i)(E)(1) - 05/03/95 - 60 FR 21702]
3. Owner/Operator shall not transfer, or permit the transfer, or provide equipment for the transfer of gasoline from the gasoline storage tank into any motor vehicle tank of greater than 19 liters (5 gallons) capacity unless:
- (a) The dispensing unit used to transfer the gasoline from the gasoline tank to the motor vehicle fuel tank is equipped with a vapor recovery system which has been certified by the California Air Resources Board as capable of recovering 95% of the displaced gasoline vapors; and
 - (b) The vapor recovery system is operating in accordance with the manufacturer's

- specifications; and
- (c) Equipment is operated and maintained with none of the following defects, pursuant to the definitions in California Administrative Code Section 94006, Subchapter 8, Chapter 1, Part III, of Title 17:
- (i) Torn or cut boots;
 - (ii) Torn or cut face seals or face cones;
 - (iii) Loose or broken retractors;
 - (iv) Boots clamped or otherwise held in an open position;
 - (v) Leaking nozzles;
 - (vi) Loose, missing, or disconnected nozzle components, including but not limited to boots, face seals, face cones, check valve wires, diaphragm covers and latching devices;
 - (vii) Defective shutoff mechanisms;
 - (viii) Loose, missing, or disconnected vapor fuel hoses and associated components including but not limited to flow restrictors, swivels and anti-recirculation valves;
 - (ix) Crimped, cut, severed, or otherwise damaged vapor or fuel hoses;
 - (x) Missing, turned off, or otherwise not operating assist type vapor recovery systems, or any components of such systems;
 - (xi) Improper or non-"CARB certified" equipment or components;
 - (xii) Inoperative, severely malfunctioning or missing vacuum producing device;
 - (xiii) Inoperative, loose, missing or disconnected pressure/vacuum relief valves, vapor check valves or dry breaks.

[Rule 461 - *Gasoline Transfer and Dispensing*; Version in SIP = Current, 40 CFR 52.220(c)(198)(i)(E)(1) - 05/03/95 - 60 FR 21702]

4. Vapor processing or vapor recovery system used by Owner/Operator shall comply with all safety, fire, weights and measures, and other applicable codes and/or regulations.
[Rule 461 - *Gasoline Transfer and Dispensing*; Version in SIP = Current, 40 CFR 52.220(c)(198)(i)(E)(1) - 05/03/95 - 60 FR 21702]
5. Owner/Operator shall not install any new or rebuilt vapor recovery equipment unless the components and parts clearly identify by markings the certified manufacturing company and/or certified rebuilding company.
[Rule 461 - *Gasoline Transfer and Dispensing*; Version in SIP = Current, 40 CFR 52.220(c)(198)(i)(E)(1) - 05/03/95 - 60 FR 21702]
6. Vapor recovery system shall be at all times maintained in accordance with the manufacturer's specifications and the State's certification.
[Rule 461 - *Gasoline Transfer and Dispensing*; Version in SIP = Current, 40 CFR 52.220(c)(198)(i)(E)(1) - 05/03/95 - 60 FR 21702]
7. When problems or defects are detected and are associated with any vapor recovery, storage, delivery vessel or dispensing equipment, other than a breakdown of the central vapor incineration

or processing unit, the Owner/Operator shall at the end of the cycle, as defined in Rule 461, remove the equipment from service and not use the equipment until it has been repaired, replaced or adjusted as necessary to remove the problem or defect.

[Rule 461 - *Gasoline Transfer and Dispensing*; Version in SIP = Current, 40 CFR 52.220(c)(198)(i)(E)(1) - 05/03/95 - 60 FR 21702]

8. Owner/Operator shall not perform or permit the "pump-out" (bulk transfer) of gasoline from the gasoline storage tank unless such bulk transfer is performed using a vapor recovery system capable of returning the displaced vapors from the delivery vessel or other container being filled back to the gasoline storage tank. This vapor recovery is not required where the container is to be removed or filled with water for testing. For visual inspections, the requirements of Part II, Section B, condition B.3.d. are applicable.
[Rule 461 - *Gasoline Transfer and Dispensing*; Version in SIP = Current, 40 CFR 52.220(c)(198)(i)(E)(1) - 05/03/95 - 60 FR 21702]
9. Owner/Operator shall not store, or allow the storage of, gasoline in the gasoline storage tank unless the tank is equipped with a permanent submerged fill pipe and a certified vapor recovery system.
[Rule 461 - *Gasoline Transfer and Dispensing*; Version in SIP = Current, 40 CFR 52.220(c)(198)(i)(E)(1) - 05/03/95 - 60 FR 21702]
10. Owner/Operator shall maintain a log of all inspections, repairs, and maintenance on equipment subject to Rule 461 as listed in Part II, Section B conditions. In addition, Owner/Operator shall maintain a leak inspection log containing, at a minimum, the following: inspector's name, location and description of component type where any leak is found; date of leak detection, emission level (ppm) if applicable, and date leak is repaired. Such logs or records shall be maintained at the facility for a minimum of 5 years from the date the records were created and shall be made available to District, state or federal personnel upon request.
[40 CFR 70.6(a)(3)(ii)(B); Rule 1203(D)(1)(d)(ii)].
[Rule 461 - *Gasoline Transfer and Dispensing*; Version in SIP = Current, 40 CFR 52.220(c)(198)(i)(E)(1) - 05/03/95 - 60 FR 21702]
[40 CFR 70.6(a)(3)(ii)(B); Rule 1203(D)(1)(d)(ii)]
[40 CFR 70.6 (a)(3)(i)(B) - Periodic Monitoring Requirements]
11. Any violation determined by any one of the following listed *Reference Method Tests* shall constitute a violation of applicable Part II and Part III conditions:
 - (a) Vapor Recovery System Efficiency for Delivery Vessels shall be determined by the EPA Method entitled, *Control of Organic Compound Leaks from Gasoline Tank Trucks and Vapor Collection Systems* (method specified in the CTG EPA-450/2-78-051), or the CARB Method entitled, *Certification and Test Procedures for Vapor Recovery Systems of Gasoline Delivery Tanks*.
 - (b) Reid Vapor Pressure shall be determined in accordance with ASTM Method D 323-82.
 - (c) Vapor Recovery System Efficiency for Bulk Plants shall be determined by CARB

- Method 202, "*Certification of Vapor Recovery Systems - Bulk Plants*".
- (d) Vapor Recovery System Efficiency for Terminals shall be determined by CARB Method 203, "*Certification of Vapor Recovery Systems - Gasoline Terminals*".
- (e) Vapor Recovery System Efficiency for Service Stations shall be determined by the CARB Methods in "*Test Procedures for Determining the Efficiency of Gasoline Vapor Recovery Systems at Service Stations*".
- [Rule 461 - *Gasoline Transfer and Dispensing*; Version in SIP = Current, 40 CFR 52.220(c)(198)(i)(E)(1) - 05/03/95 - 60 FR 21702]
[40 CFR 70.6 (a)(3)(i)(B) - Periodic Monitoring Requirements]
[Rule 204 - *Permit Conditions*; Version in SIP = CARB Ex. Order G-73, 40 CFR 52.220(c)(39)(ii)(B) - 11/09/78 43 FR 52237; Current Rule Version = 07/25/77]
12. Compliance with the requirement of the Phase II system to be 95 % effective for the recovery of displaced vapors is considered to be demonstrated by maintaining equipment as specified in the applicable ARB Executive Order certifying the system.
[Rule 461 - *Gasoline Transfer and Dispensing*; Version in SIP = Current, 40 CFR 52.220(c)(198)(i)(E)(1) - 05/03/95 - 60 FR 21702]
[40 CFR 70.6 (a)(3)(i)(B) - Periodic Monitoring Requirements]
[Rule 204 - *Permit Conditions*; Version in SIP = CARB Ex. Order G-73, 40 CFR 52.220(c)(39)(ii)(B) - 11/09/78 43 FR 52237; Current Rule Version = 07/25/77]
13. Owner/Operator shall maintain a daily log of product throughput for gasoline dispensing facility.
[Rule 461 - *Gasoline Transfer and Dispensing*; Version in SIP = Current, 40 CFR 52.220(c)(198)(i)(E)(1) - 05/03/95 - 60 FR 21702]
[40 CFR 70.6 (a)(3)(i)(B) - Periodic Monitoring Requirements]
14. Owner/Operator shall conspicuously post in the gasoline dispensing area the operating instructions, the District's toll-free telephone number for complaints and a District specified warning sign. Post the following toll-free telephone number: 1-800-635-4617.
[Rule 461 - *Gasoline Transfer and Dispensing*; Version in SIP = Current, 40 CFR 52.220(c)(198)(i)(E)(1) - 05/03/95 - 60 FR 21702]
[40 CFR 70.6 (a)(3)(i)(B) - Periodic Monitoring Requirements]
15. Any modifications or changes to the piping or control fittings of the vapor recovery system requires prior approval from the MDAQMD.
[Rule 461 - *Gasoline Transfer and Dispensing*; Version in SIP = Current, 40 CFR 52.220(c)(198)(i)(E)(1) - 05/03/95 - 60 FR 21702]
[40 CFR 70.6 (a)(3)(i)(B) - Periodic Monitoring Requirements]

PART IV STANDARD FEDERAL OPERATING PERMIT CONDITIONS

A. STANDARD CONDITIONS:

1. If any portion of this Federal Operating Permit is found to be invalid by the final decision of a court of competent jurisdiction the remaining portion(s) of this Federal Operating Permit shall not be affected thereby.
[40 CFR 70.6(a)(5); Rule 1203(D)(1)(f)(i)]
2. Owner/Operator shall comply with all condition(s) contained herein. Noncompliance with any condition(s) contained herein constitutes a violation of the Federal Clean Air Act and of MDAQMD Regulation XII and is grounds for enforcement action; termination, revocation and re-issuance, or modification of this Federal Operating Permit; and/or grounds for denial of a renewal of this Federal Operating Permit.
[40 CFR 70.6(a)(6)(i); Rule 1203(D)(1)(f)(ii)]
3. It shall not be a defense in an enforcement action brought for violation(s) of condition(s) contained in this Federal Operating Permit that it would have been necessary to halt or reduce activity to maintain compliance with those condition(s).
[40 CFR 70.6(a)(6)(ii); Rule 1203(D)(1)(f)(iii)]
4. This Federal Operating Permit may be modified, revoked, reopened or terminated for cause.
[40 CFR 70.6(a)(6)(iii); Rule 1203(D)(1)(f)(iv)]
5. The filing of an application for modification; a request for revocation and re-issuance; a request for termination; notifications of planned changes; or anticipated noncompliance with condition(s) does not stay the operation of any condition contained in this Federal Operating Permit.
[40 CFR 70.6(a)(6)(iii); Rule 1203(D)(1)(f)(v)]
6. The issuance of this Federal Operating Permit does not convey any property rights of any sort nor does it convey any exclusive privilege.
[40 CFR 70.6(a)(6)(iv); Rule 1203(D)(1)(f)(vi)]
7. Owner/Operator shall furnish to the MDAQMD, within a reasonable time as specified by the MDAQMD, any information that the MDAQMD may request in writing.
[40 CFR 70.6(a)(6)(v); Rule 1203(D)(1)(f)(vii)]

8. Owner/Operator shall furnish to District, state or federal personnel, upon request, copies of any records required to be kept pursuant to condition(s) of this Federal Operating Permit.
[40 CFR 70.6(a)(6)(v); Rule 1203(D)(1)(f)(viii)]
9. Any records required to be generated and/or kept by any portion of this Federal Operating Permit shall be retained by the facility Owner/Operator for at least five (5) years from the date the records were created.
[40 CFR 70.6(a)(3)(ii)(B); Rule 1203(D)(1)(d)(ii)]
10. Owner/Operator shall pay all applicable fees as specified in MDAQMD Regulation III, including those fees related to permits as set forth in Rules 301 and 312.
[40 CFR 70.6(a)(7); Rule 1203(D)(1)(f)(ix)]
11. Owner/Operator shall not be required to revise this permit for approved economic incentives, marketable permits, emissions trading or other similar programs provided for in this permit.
[40 CFR 70.6(a)(8); Rule 1203(D)(1)(f)(x)]
12. Compliance with condition(s) contained in this Federal Operating Permit shall be deemed compliance with the Applicable Requirement underlying such condition(s). The District clarifies that “only” Applicable Requirements listed & identified elsewhere in this Title V Permit are covered by this Permit Shield and does not extend to any unlisted/unidentified conditions pursuant to the requirements of 40 CFR 70.6(f)(1)(i).
[40 CFR 70.6(f)(1)(i); Rule 1203(G)(1)]
13. The Permit Shield set forth above, in condition 12 of Part IV, shall not be construed to limit the emergency powers of USEPA as set forth in 42 U.S.C. §7603.
[40 CFR 70.6(f)(3)(i); Rule 1203(G)(3)(a)]
14. The Permit Shield set forth above, in condition 12 of Part IV, shall not be construed to limit liability for violations which occurred prior to the issuance of this Federal Operating Permit.
[40 CFR 70.6(f)(3)(ii); Rule 1203(G)(3)(b)]
15. The Permit Shield set forth above, in condition 12 of Part IV, shall not be construed to alter any Applicable Requirement Contained in the Acid Rain Program.
[40 CFR 70.6(f)(3)(iii); Rule 1203(G)(3)(c)]

16. The Permit Shield set forth above, in condition 12 of Part IV, shall not be construed to limit the ability of USEPA or the MDAQMD to obtain information pursuant to other provisions of law including but not limited to 42 U.S.C. §7414. [40 CFR 70.6(f)(3)(iv); Rule 1203(G)(3)(d)]
17. The Permit Shield set forth above, in condition 12 of Part IV, shall not be construed to apply to emissions trading pursuant to provisions contained in an applicable State Implementation Plan. [40 CFR 70.4(b)(12)(ii)(B); Rule 1203(G)(3)(e)]
18. The Permit Shield set forth above, in condition 12 of Part IV, shall not be construed to apply to changes made which are not expressly allowed by this Federal Operating Permit. [40 CFR 70.4(b)(14)(iii); Rule 1203(G)(3)(f)]
19. The Permit Shield set forth in Part IV, condition 12, shall not be construed to apply to changes made pursuant to the Significant Permit Modification provisions until such changes are included in this Federal Operating Permit. [40 CFR 70.5(a)(1)(ii), 70.7(e)(2)(vi); Rule 1203 (G)(3)(g)]
20. If Owner/Operator performs maintenance on, or services, repairs, or disposes of appliances, Owner/Operator shall comply with the standards for Recycling and Emissions Reduction pursuant to 40 CFR Part 82, Subpart F. These requirements are Federally Enforceable through this Title V Permit. [40 CFR Part 82, Subpart F]
21. If Owner/Operator performs service on motor vehicles when this service involves the ozone-depleting refrigerant in the motor vehicle air conditioner (MVAC), Owner/Operator shall comply with the standards for Servicing of Motor Vehicle Air Conditioners pursuant to all the applicable requirements as specified in 40 CFR Part 82, Subpart B. These requirements are Federally Enforceable through this Title V Permit. [40 CFR Part 82, Subpart B]
22. Notwithstanding the testing requirements contained elsewhere in this Title V Permit, any credible evidence may be used to establish violations, including but not limited to; reference test methods, engineering calculations, indirect estimates of emissions, CEMS data, and parametric monitoring data. Data need not be required to be collected in a Title V permit in order to be considered credible. [Section 113(a) of the Clean Air Act]

PART V OPERATIONAL FLEXIBILITY

A. ALTERNATIVE OPERATING SCENARIO(S):

No additional Operational Flexibility provisions allowed without appropriate permit modifications.

PART VI CONVENTIONS, ABBREVIATIONS, DEFINITIONS

A. The following referencing conventions are used in this Federal Operating Permit:

40CFR60, Standards of Performance for New Stationary Sources (NSPS)
40CFR60, Appendix F, Quality Assurance Procedures
40CFR61, National Emission Standards for Hazardous Air Pollutants (NESHAPS)
40CFR61, Subpart M, National Emission Standards for Asbestos
40CFR72, Permits Regulation (Acid Rain Program)
40CFR73, Sulfur Dioxide Allowance System
40CFR75, Continuous Emission Monitoring
40CFR75, Subpart D, Missing Data Substitution Procedures
40CFR75, Appendix B, Quality Assurance and Quality Control Procedures
40CFR75, Appendix C, Missing Data Estimating Procedures
40CFR75, Appendix D, Optional SO₂ Emissions Data Protocol
40CFR75, Appendix F, Conversion Procedures
40CFR75, Appendix G, Determination of CO₂ Emissions

B. Other conventions:

1. Unless otherwise noted, a “day” shall be considered a 24 hour period from midnight to midnight (i.e., calendar day).
2. The process unit identifications represent the District permit number designations. These numbers are not sequential. The use of District permit numbers provides continuity between the District and Federal Operating Permit systems.

C. Abbreviations used in this permit are as follows:

CFR	Code of Federal Regulations
APCO	Air Pollution Control Officer
bhp	brake horse power
Btu	British thermal units
CCR	California Code of Regulations
CEMS	continuous emissions monitoring system
CO	carbon monoxide
CO ₂	carbon dioxide
District	Mojave Desert Air Quality Management District (formed July 1993)
MDAQMD	Mojave Desert Air Quality Management District (formed July 1993)
MD	Mojave Desert Air Quality Management District (formed July 1993)
SB	San Bernardino County APCD (1975 to formation of MDAQMD)
gr/dscf	grains per dry standard cubic foot
gpm	gallons per minute
gph	gallons per hour
hp	horse power
H&SC	California Health and Safety Code
lb	pounds
lb / hr	pounds per hour
lb / MM Btu	pounds per million British thermal units
MM Btu	million British thermal units
MM Btu/hr	million British thermal units per hour
MW	Megawatt electrical power

MW(e) net	net Megawatt electrical power
NH ₃	ammonia
NMOC	non-methane organic compounds
NO _x	oxides of nitrogen
NO ₂	nitrogen dioxide
O ₂	oxygen
pH	pH (acidity measure of solution)
PM ₁₀	particulate matter less than 10 microns aerodynamic diameter
ppmv	parts per million by volume
psig	pounds per square inch gauge pressure
QA	quality assurance
rpm	revolutions per minute
RVP	Reid vapor pressure
SCAQMD	South Coast Air Quality Management District
scfm	standard cubic feet per minute
scfh	standard cubic feet per hour
SIC	Standard Industrial Classification
SIP	State of California Implementation Plan
SO _x	oxides of sulfur
SO ₂	sulfur dioxide
tpy	tons per year
TVP	true vapor pressure

APPENDIX B

NSPS Subparts A, Y, and OOO and NESHAP Subparts A and LLL Requirements

Table B-1: NSPS Subpart A and Subpart Y Requirements for Coal Handling Units

§60.252(c) Limit opacity to 20% using EPA Method 9 for opacity

§60.7(a)(4) Notify the Administrator of planned changes to the operation or equipment.

§60.7(b) Keep records of the occurrence and duration of any startup, shutdown, or malfunction in operation.

§60.11(c) The opacity standards set forth in this part shall apply at all times except during periods of startup, shutdown, and malfunction.

§60.11(d) At all times, including periods of startup, shutdown and malfunction, owners and operators shall, to the extent practicable, maintain and operate any affected facility including associated air pollution control equipment in a manner consistent with good air pollution control practice for minimizing emissions.

Table B-2: NSPS Subpart A and Subpart OOO Requirements for Sand Plant

§60.672(a)(1) and §60.672(g) limit stack particulate matter (PM) emissions to 0.022 gr/dscf for any transfer point for belt conveyors or any other affected facility, including multiple storage bins with combined stack emissions (not including baghouses that control emissions only from an individual enclosed storage bin)

§60.672(a)(2) and §60.672(g) limit stack emission opacity to 7% for any transfer point for belt conveyors or any other affected facility, including multiple storage bins with combined stack emissions

§60.672(b) limit fugitive emission opacity to 10% for any transfer point on belt conveyors or any other affected facility

§60.672(c) limit fugitive emission opacity to 15% from any crusher at which a capture system is not used.

§60.672(d) truck dumping is exempt from above limits

§60.672(f) limit stack emission opacity to 7% for any baghouse that controls emissions from only an individual enclosed storage bin

§60.7(a)(4) Notify the Administrator of planned changes to the operation or equipment.

§60.7(b) Keep records of the occurrence and duration of any startup, shutdown, or malfunction in operation

§60.11(c) The opacity standards set forth in this part shall apply at all times except during periods of startup, shutdown, and malfunction.

§60.11(d) At all times, including periods of startup, shutdown and malfunction, owners and operators shall, to the extent practicable, maintain and operate any affected facility including associated air pollution control equipment in a manner consistent with good air pollution control practice for minimizing emissions.

§60.8 and §60.675 perform initial compliance testing within 60 days after achieving the maximum production rate at which the affected facility will be operated, but not later than 180 days after initial startup and at such other times as may be required by the Administrator under Section 114 of the Clean Air Act. Conduct test under such conditions as the Administrator shall specify to the plant operator based on representative performance of the affected facility. Use EPA Method 5 or Method 17 to determine compliance with the PM standard and use EPA Method 9 to determine compliance with opacity standard.

- The sample volume shall be at least 1.70 dscm (60 dscf). For Method 5, if the gas stream being sampled is at ambient temperature, the sampling probe and filter may be operated without heaters. If the gas stream is above ambient temperature, the sampling probe and filter may be operated at a temperature high enough, but no higher than 121°C (250°F), to prevent water condensation on the filter.
- For transfer points on belt conveyors and any other affected facility, including multiple storage bins with combined stack emissions, the minimum total time of observations shall be 3 hours (30 6-minute averages). The duration may be reduced from 3 hours to 1 hour if there are no individual readings greater than the opacity limit and there are no more than 3 readings greater than the opacity limit for the 1-hour period.
- For baghouses that control emissions only from an individual enclosed storage bin, the duration of the Method 9 observations shall be 1 hour (ten 6-minute averages).

Table B-2: NSPS Subpart A and Subpart OOO Requirements for Sand Plant

- The minimum distance between the observer and the emission source shall be 4.57 meters (15 feet). The observer shall, when possible, select a position that minimizes interference from other fugitive emission sources (e.g., road dust). The required observer position relative to the sun (Method 9, Section 2.1) must be followed. For affected facilities using wet dust suppression for particulate matter control, the spray sometimes generates a visible mist. The water mist must not be confused with particulate matter emissions and is not to be considered a visible emission. When a water mist of this nature is present, the observation of emissions is to be made at a point in the plume where the mist is no longer visible.
- A 30-day notice is required prior to the initial performance test. If, after 30 days notice for an initially scheduled performance test, there is a delay in conducting any rescheduled performance test required in this section, the owner or operator of an affected facility shall submit a notice to the Administrator at least 7 days prior to any rescheduled performance test.

§60.676(a) submit required information in case of equipment replacement.

§60.676 (f) Submit a written report of all performance tests conducted to demonstrate compliance with the PM and opacity standards.

§60.676 (h) The requirement for notification of the anticipated date of initial startup is waived.

§60.676 (i) Notify the Administrator of the actual date of initial startup.

Table B-3: NSPS Subpart A, Y, and OOO Applicability

Section	Description	CEMEX Applicability
NSPS Subpart A	General Provisions (60.1--60.19)	Yes
§60.1	Applicability	Yes
§60.2	Definitions	Yes
§60.3	Units and abbreviations	Yes
§60.4	Address	Yes
§60.5	Determination of construction or modification	Yes
§60.6	Review of plan	Yes
§60.7	§60.7(a)(1) Notification of date of construction	No
	§60.7(a)(3) Notification of date of initial startup	No
	§60.7(a)(4) Notification of planned changes	Yes
	§60.7(a)(5) Notification of CMS demonstration test	No
	§60.7(a)(6) Notification of initial opacity observation date	Yes
	§60.7(a)(7) Notification of COMS data use in place of observations	No
	§60.7(b) Recordkeeping for start-up, shutdown, malfunction of affected unit or control device.	Yes
	§60.7(c) CEMS performance report and excess emission report	No
	§60.7(d) CEMS performance report and excess emission report format	No
	§60.7(e) CEMS performance report and excess emission report frequency	No
	§60.7(f) Keep all measurements records for 2 years.	Yes
	§60.7(g) and (h) Administrative requirements relating to notification	Yes
§60.8	Initial performance tests	Yes
§60.9	Availability of information	Yes
§60.10	State authority	Yes
§60.11	§60.11(a) Compliance with standards other than opacity	No for Subpart Y Yes for Subpart OOO
	§60.11(b) Compliance with opacity standard	Yes
	§60.11(c) Exemption during startup, shutdown & malfunction periods	Yes
	§60.11(d) Maintain proper operation at all times, including during startup, shutdown, and malfunction periods	Yes
	§60.11(e) Initial opacity observation	Yes
	§60.11(f) Specific subpart requirement governs	Yes
§60.12	Circumvention	Yes
§60.13	Monitoring requirements	No
§60.14	Modification	Yes, in case of modification
§60.15	Reconstruction	Yes, in case of reconstruction

Table B-3: NSPS Subpart A, Y, and OOO Applicability

Section	Description	CEMEX Applicability
§60.18	General control device requirement (Flares)	No
§60.19	General notification and reporting requirements	Yes
NSPS Subpart Y	Standards of Performance for Coal Preparation Plants (60.250--60.254)	
§60.250	Applicability and designation of affected facility	Yes
§60.251	Definitions	Yes
§60.252	§60.252(a) and (b) Standards for PM	No
	§60.252(c) Standards for opacity	Yes
§60.253	Monitoring of operations	No
§60.254	§60.254(a) General testing requirement	Yes
	§60.254(b)(1) Test methods and procedures for PM	No
	§60.254(b)(2) Test methods and procedures for opacity	Yes
NSPS Subpart OOO	<u>STANDARDS OF PERFORMANCE FOR NONMETALLIC MINERAL PROCESSING PLANTS (60.670 – 60.676)</u>	
§60.670	Applicability and designation of affected facility	Yes
§60.671	Definitions	Yes
§60.672	§60.672(a) standard for PM and Opacity	Yes
	§60.672(b) opacity standard for transfer points	Yes
	§60.672(c) opacity standard for crusher	Yes
	§60.672(d) truck dumping is exempted from PM and Opacity standards	Yes
	§60.672(e) opacity standard for enclosed building	No
	§60.672(f) opacity standard for baghouse vents	Yes
	§60.672(h) visible emission standard for wet screening	No
§60.674	Pressure and flow rate monitoring requirements for wet scrubber	No
§60.675	Test method and procedures for PM and opacity	Yes
§60.676	§60.676(a) equipment replacement report	Yes
	§60.676(c) performance test and daily record keeping for wet scrubber	No
	§60.676(d) and (e) semi-annual report for wet scrubber	No
	§60.676 (f) report of all performance tests	Yes
	§60.676 (g) change in wet screening operations	No
	§60.676 (h) waiver of notification of anticipated startup date	Yes
	§60.676 (i) notification of actual startup date	Yes
	§60.676 (j) delegation of enforcement authority to a State	Yes

**Table B-4: NESHAP Subpart LLL Requirements for
KILN (Q2) AND CLINKER COOLER SYSTEM - MDAQMD PERMIT # B001083
KILN (Q3) AND CLINKER COOLER SYSTEM - MDAQMD PERMIT # B005362**

§63.1343(b)(1) Limit PM emissions to 0.30 lb/ton dry feed.

§63.1343(b)(2) Limit opacity to 20%.

§63.1343(b)(3)(i) Limit D/F emissions to 8.7×10^{-11} grains (TEQ) per dscf of exhaust gases @ 7% O₂, or 1.7×10^{-10} grains (TEQ) per dscf of exhaust gases @ 7% O₂ for temperatures below 400 °F.

§63.1344(a) & (b) Limit temperature at kiln baghouse inlet to values measured during D/F performance test (with raw mill on and off, respectively).

§63.1349(b)(1) Conduct an initial performance test for PM and opacity using EPA Method 5 for PM and Method 9 for opacity. Test at the highest load or capacity reasonably expected to occur. Minimum 3 separate runs. Minimum sample volume 30 dscf. Back half is not included. Report results in lb/ton feed. Maximum 6-minute average opacity during each of 3 PM tests.

§63.1349(b)(3) Conduct an initial performance test for D/F using EPA Method 23. Minimum 3 separate runs. Minimum sample volume 90 dscf PM D inlet temperature must be monitored. Test with raw mill on and raw mill off, separately.

§63.1349(c) Repeat performance test for PM every 5 years.

§63.1349(d) Repeat performance test for D/F every 30 months.

§63.1349(e) Repeat performance test for PM, opacity, and D/F within 360 hours of initiating any significant change in the feed or fuel from that used in the previous performance test

§63.6(e)(3) Develop startup, shutdown, and malfunction (SSM) plan.

§63.1350(a) Prepare an operations and maintenance (O&M) plan.

§63.1350(c)(2) Perform daily opacity monitoring using EPA Method 9 for at least 30 minutes each day. Record the average opacity for each 6-minute period. To be in compliance, no 6-minute period can exceed 10%.

§63.1350(f)(1) through (f)(5) Install continuous temperature monitor and recording device for baghouse inlet gas (record on three-hour average basis distinguishing between periods when the raw mill is online and offline).

§63.1350(f)(6) Calibrate thermocouples and/or temperature sensors every 3 months.

**Table B-4: NESHAP Subpart LLL Requirements for
KILN (Q2) AND CLINKER COOLER SYSTEM - MDAQMD PERMIT # B001083
KILN (Q3) AND CLINKER COOLER SYSTEM - MDAQMD PERMIT # B005362**

§63.1350(i) Perform annual inspection of the components of the combustion system.

**Table B-4: NESHAP Subpart LLL Requirements for
KILN (Q2) AND CLINKER COOLER SYSTEM - MDAQMD PERMIT # B001083
KILN (Q3) AND CLINKER COOLER SYSTEM - MDAQMD PERMIT # B005362**

§63.8(c) Follow requirements for CMS installation and identify out-of-control periods for temperature monitor.

§63.8(d) Develop a CMS QC program for temperature monitor.

§63.8(e) Conduct a CMS performance evaluation for the temperature monitor.

§63.1353(b)(2) & §63.9(e) Notify administrator of performance test and opacity observation at least 60 calendar days before scheduled test date.

§63.1353(b)(5) Notification of compliance status within 30 or 60 days after performance test completed.

§63.1354(b)(1)&(2), & §63.10(d)(2)&(3) Submit results of performance test and opacity observations within 60 days after completion of test.

§63.1354(b)(4) & §63.10(d)(5)(i) Submit semiannual report of all malfunctions, SSM actions consistent with SSM plan, and SSM actions not consistent with SSM plan but not resulting in excess emissions, within 30 days following the end of the semiannual period.

§63.1354(b)(5) & §63.10(d)(5)(ii) Notify EPA and MDAQMD within 2 working days of actions not consistent with SSM plan, followed by certified letter within 7 days.

§63.1354(b)(9) & §63.10(c) Submit semiannual summary report of gas temperature monitoring and recording device.

§63.1355(a) & (b), & §63.10(b) & (c) Keep records for 5 years from the date of occurrence for:

- Applicability determination
- Notifications of performance tests
- Results of performance tests
- SSM records, including actions not consistent with SSM plans
- O&M records, including discrepancies
- VE/opacity inspections
- Temperature monitoring data
- Thermocouple calibrations
- Temperature CMS records
- Semiannual reports and other reports

**Table B-5: NESHAP Subpart LLL Requirements for
KILN (Q2) AND CLINKER COOLER SYSTEM - MDAQMD PERMIT # B001083
KILN (Q3) AND CLINKER COOLER SYSTEM - MDAQMD PERMIT # B005362**

§63.1345(a)(1) Limit PM emissions to 0.10 lb/ton dry feed.

§63.1345(a)(2) Limit opacity to 10%.

§63.1349(b)(1) Conduct an initial performance test for PM and opacity using EPA Method 5 for PM and Method 9 for opacity. Test at the highest load or capacity reasonably expected to occur. Minimum 3 separate runs. Minimum sample volume 30 dscf. Back half is not included. Report results in lb/ton feed. Maximum 6-minute average opacity during each of 3 PM tests.

§63.1349(c) Repeat performance test for PM every 5 years.

§63.6(e)(3) Develop startup, shutdown, and malfunction (SSM) plan.

§63.1350(a) Prepare a written operations and maintenance (O&M) plan.

§63.1350(d)(2) Perform daily opacity monitoring using EPA Method 9 for at least 30 minutes each day. Record the average opacity for each 6-minute period. To be in compliance, no 6-minute period can exceed 10%.

§63.1353(b)(2) & §63.9(e) Notify administrator of performance test at least 60 calendar days before scheduled test date.

§63.1353(b)(5) Notification of compliance status within 30 or 60 days after performance test completed.

§63.1354(b)(1)&(2), & §63.10(d)(2)&(3) Submit results of performance test and opacity observations within 60 days after completion of test.

§63.1354(b)(4) & §63.10(d)(5)(i) Submit semiannual report of all malfunctions, SSM actions consistent with SSM plan, and SSM actions not consistent with SSM plan but not resulting in excess emissions, within 30 days following the end of the semiannual period.

§63.1354(b)(5) & §63.10(d)(5)(ii) Notify within 2 working days actions not consistent with SSM plan, followed by certified letter within 7 days.

**Table B-5: NESHAP Subpart LLL Requirements for
KILN (Q2) AND CLINKER COOLER SYSTEM - MDAQMD PERMIT # B001083
KILN (Q3) AND CLINKER COOLER SYSTEM - MDAQMD PERMIT # B005362**

§63.1355(a) & (b), & §63.10(b) Keep records for 5 years from the date of occurrence for:

- Applicability determination
- Notifications of performance tests
- Results of performance tests
- SSM records, including actions not consistent with SSM plans
- O&M records, including discrepancies
- VE/opacity inspections
- Reports

Table B-6: NESHAP Subpart LLL Requirements for Raw Mills and Finish Mills

§63.1347 Limit opacity to 10%.

§63.1349(b)(2) Conduct an initial performance test for opacity using EPA Method 9. The duration of the test shall be 3 hours but may be reduced to 1 hour if certain conditions are met.

§63.1349(c) Repeat performance test for opacity every 5 years.

§63.6(e)(3) Develop startup, shutdown, and malfunction (SSM) plan.

§63.1350(a) Prepare a written operations and maintenance (O&M) plan.

§63.1350(e) Perform daily opacity monitoring using EPA Method 22 for six minutes.

§63.1350(e)(1) & (e)(2) If visible emissions are observed during opacity monitoring, perform corrective actions within 1 hour according to O&M plans, followed by VE inspection using EPA Method 9 within 24 hours.

§63.1353(b)(3) & §63.9(f) Notify administrator of opacity test at least 30 calendar days before scheduled test date.

§63.1353(b)(5) Notification of compliance status within 30 or 60 days after performance test completed.

§63.1354(b)(2) & §63.10(d)(3) Submit results of opacity observations before 30 days following the completion of the VE/opacity observation.

§63.1354(b)(1)&(2), & §63.10(d)(2)&(3) Submit results of performance test and opacity observations within 60 days after completion of test.

§63.1354(b)(4) & §63.10(d)(5)(i) Submit semiannual report of all malfunctions, SSM actions consistent with SSM plan, and SSM actions not consistent with SSM plan but not resulting in excess emissions, within 30 days following the end of the semiannual period.

§63.1354(b)(5) & §63.10(d)(5)(ii) Notify EPA and MDAQMD within 2 working days of actions not consistent with SSM plan, followed by certified letter within 7 days.

§63.1355(a) & (b), & §63.10(b) Keep records for 5 years from the date of occurrence for:

- Applicability determination
- Notifications of performance tests
- Results of performance tests
- SSM records, including actions not consistent with SSM plans
- O&M records, including discrepancies
- VE/opacity inspections
- Reports

Table B-7: NESHAP Subpart LLL Requirements for Other Affected Sources

§63.1348 Limit opacity to 10%.

§63.1349(b)(2) Conduct an initial performance test for opacity using EPA Method 9. The duration of the test shall be 3 hours but may be reduced to 1 hour if certain conditions are met.

§63.1349(c) Repeat performance test for opacity every 5 years.

§63.6(e)(3) Develop startup, shutdown, and malfunction (SSM) plan.

§63.1350(a) Prepare a written operations and maintenance (O&M) plan.

§63.1350(a)(4) Perform 1-minute opacity monitoring using EPA Method 22 monthly, semi-annually, or annually. If no visible emissions are observed in six consecutive monthly tests for any affected source, the owner or operator may decrease the frequency of testing from monthly to semi-annually for that affected source. If visible emissions are observed during any semi-annual test, the owner or operator must resume testing of that affected source on a monthly basis and maintain that schedule until no visible emissions are observed in six consecutive monthly tests. If no visible emissions are observed during the semi-annual test for any affected source, the owner or operator may decrease the frequency of testing from semi-annually to annually for that affected source. If visible emissions are observed during any annual test, the owner or operator must resume testing of that affected source on a monthly basis and maintain that schedule until no visible emissions are observed in six consecutive monthly tests.

§63.1353(b)(1) Initial notification of Subpart LLL applicability.

§63.1353(b)(3) & §63.9(f) Notify administrator of opacity test at least 30 calendar days before scheduled test date.

§63.1353(b)(5) Notification of compliance status within 30 or 60 days after performance test completed.

§63.1354(b)(2) & §63.10(d)(3) Submit results of opacity observations before 30 days following the completion of the VE/opacity observation.

§63.1354(b)(4) & §63.10(d)(5)(i) Submit semiannual report of all malfunctions, SSM actions consistent with SSM plan, and SSM actions not consistent with SSM plan but not resulting in excess emissions, within 30 days following the end of the semiannual period

§63.1354(b)(5) & §63.10(d)(5)(ii) Notify EPA and MDAQMD within 2 working days of actions not consistent with SSM plan, followed by certified letter within 7 days.

Table B-7: NESHAP Subpart LLL Requirements for Other Affected Sources

§63.1355(a) & (b), & §63.10(b) Keep records for 5 years from the date of occurrence for:

- Applicability determination
- Notifications of performance tests
- Results of performance tests
- SSM records, including actions not consistent with SSM plans
- O&M records, including discrepancies
- VE/opacity inspections
- Reports

Table B-7: NESHAP Subpart LLL Requirements for Other Affected Sources

Section #	Section Title	Applicability (yes/no)	Exceptions?
§63.1	Applicability	Yes, except	63.1(b)(1) See 63.1340
§63.2	Definitions	Yes	
§63.3	Units and Abbreviations	Yes	
§63.4	Prohibited Activities and Circumvention	Yes	
§63.5	Construction and Reconstruction	Yes	
§63.6	Compliance with Standards & Maintenance Requirements	Yes, except	63.6(h)(5) See LLL
§63.7	Performance Testing Requirements	Yes	
§63.8	Monitoring Requirements	Yes, except 63.8(c)	Data reduction per LLL
§63.9	Notification	Yes, except	63.9(f), not required per 63.1350 (e) & (j)
§63.10	Recordkeeping and Reporting	Yes	
§63.11	Control Device Requirements	No	All sections do not apply
§63.12	State Authority and Delegations	Yes	
§63.13	Addresses of State Agencies and EPA Regional Offices	Yes	
§63.14	Incorporation by Reference	Yes	
§63.15	Availability of Information and Confidentiality	Yes	

Section #	Section Title	Applicability (yes/no)	Exceptions?
§63.1340	Applicability and Designation of Affected Sources	Yes	
§63.1341	Definitions	Yes	
§63.1342	Standards: General	Yes	
§63.1343	Standards for Kilns and In-line Kiln/Raw Mills	Yes, except	63.1343(c), (d) & (e)
§63.1344	Operating Limits for Kilns and	Yes, except	63.1344(c), (d) & (e)

Table B-7: NESHAP Subpart LLL Requirements for Other Affected Sources

Section #	Section Title	Applicability (yes/no)	Exceptions?
	In-line Kiln/Raw Mills		
§63.1345	Standards for Clinker Coolers	Yes	
§63.1346	Standards for New and Reconstructed Raw Material Dryers	No	
§63.1347	Standards for Raw and Finish Mills	Yes	
§63.1348	Standards for Affected Sources Other than Kilns; In-line Kiln/Raw Mills; Clinker Coolers; New and Reconstructed Raw Material Dryers; and Raw and Finish Mills	Yes	
§63.1349	Performance Testing Requirements	Yes, except	63.1349(b)(3)(v) and (vi), (b)(4)
§63.1350	Monitoring Requirements	Yes, except	63.1350(c)(1), (d)(1), (g), (h) & (K)
§63.1351	Compliance Dates	Yes	
§63.1352	Additional Test Methods	Yes	
§63.1353	Notification Requirements	Yes, except	(b)(4)
§63.1354	Reporting Requirements	Yes, except	(b)(7)
§63.1355	Recordkeeping Requirements	Yes	
§63.1356	Exemption from new Source Performance Standards	Yes	
§63.1357	Temporary, Conditioned Exemption from Particulate Matter and Opacity Standards	Yes	
§63.1358	Delegation of Authority	Yes	